SONY

3-215-548-**12**(1)

Display Side Hi-Fi Component System

Operating Instructions

DHC-AZ55D
DHC-AZ33D

Printed in China

http://www.sony.net/

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WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.
To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
Install this system so that the power cord can be unplugged from the wall socket immediately in the event of trouble.
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

Notice for the customer in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan.
The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.
For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

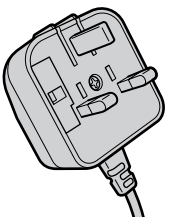
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.
Applicable accessories: Remote commander

Note on power cord plug shapes (Saudi Arabian model only)

For AC 220 V wall sockets

1 Make the appropriate voltage setting on the system (only for models with a voltage selector).

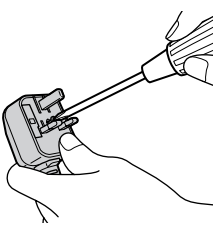
2 Make sure that the 13 A 3-pin plug (Type BF) is securely attached to the power cord. (The 13 A 3-pin plug is attached when shipped from the factory.)



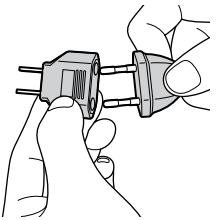
For AC 127 V wall sockets

1 Make the appropriate voltage setting on the system (only for models with a voltage selector).

2 Remove the 13 A 3-pin plug using a screwdriver.



3 Attach the supplied parallel blade plug (Type A).



About this manual

- The instructions in this manual are for models DHC-AZ55D and DHC-AZ33D. Each model consists of the following components.

DHC-AZ55D

Unit:

HCD-AZ55D (Tuner/DVD player/ Stereo cassette deck/Amplifier)

Speaker system:

SS-AZ55D (Front speakers)
SS-RSX77D (Surround speakers)
SS-CT77D (Center speaker)

DHC-AZ33D

Unit:

HCD-AZ33D (Tuner/DVD player/ Stereo cassette deck/Amplifier)

Speaker system:

SS-AZ55D (Front speakers)

In this manual, the DHC-AZ55D is used for illustration purposes unless stated otherwise.

- Icons, such as CD, listed at the top of each explanation indicate what kind of media can be used with the function being explained.
- The Control Menu items may be different depending on the disc.
- The Control Menu items may vary depending on the area.
- The Setup Menu items may be different depending on the area.
- The order of the displayed items may be different from the actual display.

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Playable discs

Type	Characteristics	Icon used in this manual	Logo
DVD VIDEO	• DVD VIDEO • DVD-R*/-RW*/+R/+RW in DVD VIDEO format * also in video mode	DVD-V	
VR mode	• DVD-R/-RW in VR (Video Recording) mode	DVD-VR	
VIDEO CD	• VIDEO CD • Super VCD • CD-R*/-RW* * in VIDEO CD or Super VCD format	VIDEO CD	
CD	• AUDIO CD • CD-R*/-RW* * in AUDIO CD format	CD	
DATA CD	• CD-ROM/-R/-RW in DATA CD format, containing MP3 audio tracks[1], JPEG image files[2] or DivX video files[3], and conforming to ISO 9660[4] Level 1 or Level 2, or Joliet (expansion format).	DATA CD	

Continued

Type	Characteristics	Icon used in this manual	Logo
DATA DVD	• DVD-ROM/-R/-RW/+R/+RW in DATA DVD format containing MP3 audio tracks[1], JPEG image files[2] or DivX video files[3], and conforming to UDF (Universal Disk Format).	DATA DVD	

This system can also play back discs with the following disc logos:

[1] MP3 (MPEG 1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data. MP3 audio tracks must be in MPEG 1 Audio Layer 3 format.

[2] JPEG image files must conform to the DCF image file format (DCF "Design rule for Camera File System": Image standards for digital cameras regulated by "Japan Electronics and Information Technology Industries Association" (JEITA)).

[3] DivX video files must be recorded in DivX format with the extension ".AVI" or ".DIVX".

[4] A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

"DVD+RW," "DVD-RW," "DVD+R," "DVD VIDEO," and the "CD" logos are trademarks.

Discs that cannot be played

- CD-ROMs recorded in PHOTO CD format
- DATA CDs recorded in MP3 PRO format
- Data part of CD-Extras[1)]
- Data part of Mixed CDs[2)]
- Super Audio CDs
- DVD Audio discs
- DVD-RAMs
- CPRM compatible DVD-R/RW recorded in Copy-once programs[3)]
- Discs of non-standard shape (for example, heart, square, star)
- Discs that have adhesive tape, paper, or sticker attached to them
- Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky when touched
- An 8 cm disc with an adaptor

[1)] CD-Extra: This format records audio (AUDIO CD data) on the tracks in session 1 and data on the tracks in session 2.

[2)] Mixed CD: This format records data on the first track and audio (AUDIO CD data) on the second and subsequent tracks of a session.

[3)] CPRM: "Content Protection for Recordable Media" is a coding technology that protects copyright for Copy-Once programs.

Region code of DVD VIDEOs you can play back on this system

Your system has a region code printed on the back of the unit and will only play back DVD VIDEOs labeled with identical region code.
DVD VIDEOs labeled will also be played back on this system.
If you try to play back any other region code DVD VIDEO, the message "Playback prohibited by area limitations." will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be labeled even though playing the DVD VIDEO is prohibited by area restrictions.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Continued

Notes on CD-R/-RW and DVD-R/-RW/+R/+RW

- In some cases, CD-Rs/-RWs and DVD-Rs/-RWs/+Rs/+RWs cannot be played back on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The disc will not be played back if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- Note that some playback functions may not work with some DVD+Rs/+RWs, even if they have been correctly finalized. In this case, view the disc by normal playback.
- A disc created in Packet Write format cannot be played back.

Note on playback operations of DVD VIDEOs and VIDEO CDs

Some playback operations of DVD VIDEOs and VIDEO CDs may be intentionally set by software producers. Since this system play back DVD VIDEOs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVD VIDEOs or VIDEO CDs.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Notes on Multi Session disc

- If the first session is recorded in AUDIO CD or VIDEO CD format, only the first session will be played back.
- The system will recognize a Multi Session disc as an AUDIO CD if there is a session recorded in AUDIO CD format on the disc. However, the system will only play back the disc if the first session is recorded in AUDIO CD format.
- This system can play back Multi Session discs when an MP3 audio track, a JPEG image file or a DivX video file is contained in the first session. Any subsequent MP3 audio tracks, JPEG image files or DivX video files recorded in later sessions can also be played back.
- With DATA CD or DATA DVD, the system will only play back DivX video files even if it contains MP3 audio tracks or JPEG image files.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

This system incorporates Dolby[1)] Digital, Dolby Pro Logic (II) adaptive matrix surround decoder, and DTS[2)] Digital Surround System.

[1)] Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

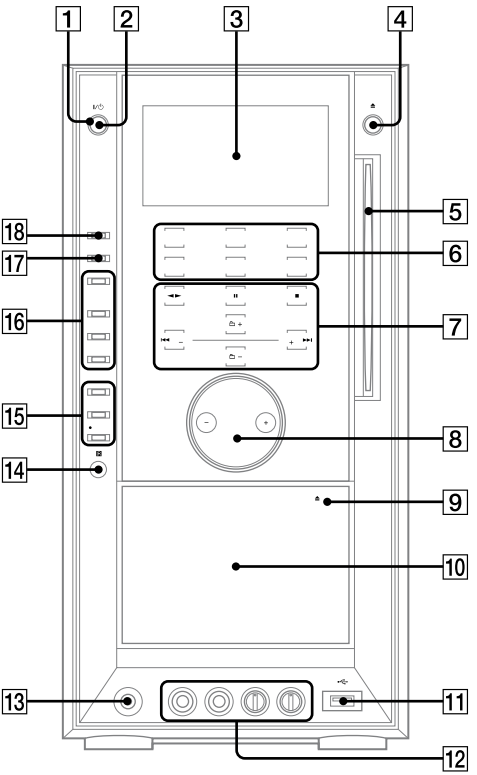
[2)] "DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.
"DTS" is a registered trademark of DTS, Inc. and "DTS 2.0 + Digital Out" is a trademark of DTS, Inc.

- DivX® is a video file compression technology, developed by DivX, Inc. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
- "WALKMAN" and "WALKMAN" logo are registered trademarks of Sony Corporation.
- MICROVAULT is a trademark of Sony Corporation.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

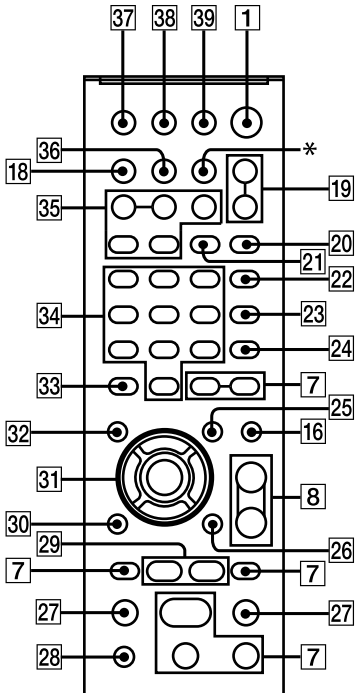
Guide to parts and controls

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Unit



Remote control



* The DISC SKIP button is not available for this model.

1

I/⏻ (on/standby) (21, 77, 106, 119)

Press to turn on the system.

Remote: TV I/⏻[1] (on/standby) (26)

Press to turn on the TV.

2

STANDBY indicator (108)

Lights up when the system is turned off.

3

Display

4

⏏ (eject) (36)

Press to eject the disc.

5

Disc slot

6

DVD (23, 25, 30, 34, 74, 91)

Touch to select the "DVD" function.

TUNER/BAND (70, 71)

Touch to select the "TUNER" function. Touch to switch among FM and AM band.

TAPE (73, 74)

Touch to select the "TAPE" function.

USB (77)

Touch to select the "USB" function.

DMPORT (107)

Touch to select the "DMPORT" function.

VIDEO/SAT (106)

Touch to select the "VIDEO" or "SAT" function.

Continued

7

Unit: ◄► (play) (34, 73, 79, 98)

Remote: ▷[2] (play) (34, 73, 79, 98)

Touch or press to start playback.

II (pause) (24, 35, 73)

■ (stop) (35, 71, 73, 77, 98, 119)

Touch or press to stop or pause playback.

🗀 +/— (32, 35)

Touch or press to select an album.

PRESET +/— (71)

Touch or press to select the preset station.

I◄◄/►►I (go backward/forward) (35, 71)

Touch or press to select a track, chapter or video file.

Remote: TV CH +/—[1] (26)

Press to change the TV channels.

8

VOLUME +/—[2] (34, 97)

Touch or press to adjust the volume.

Remote: TV VOL +/—[1)2)] (26)

Press to adjust the TV volume.

9

⏏ PUSH OPEN/CLOSE (73)

Press to insert or eject a tape.

10

Tape deck

11

⇻ (USB) port (77)

Connect an optional USB device (Digital music player or USB storage media).

12

MIC 1/MIC 2 jacks (92)

Connect to a microphone.

MIC LEVEL (91)

Turn to adjust the microphone volume.

ECHO LEVEL (92)

Turn to adjust the echo level.

13

PHONES jack

Connect the headphones.

14

Remote sensor

15

DIRECTION (73, 74, 98)

Press to select the side of the tape to be played back.

CD SYNC (75)

● START (75)

Press to record on a tape.

16

Unit: DSGX (87)

Press to reinforce the bass.

SOUND FIELD (88)

Press to select the sound field for the surround sound.

Unit: PRESET EQ (87)

Press to select the sound effect.

Unit: EQ EDIT (87)

Press to select the frequency band.

17

PROGRESSIVE (25, 104)

Press to change the output video format (Interlace or Progressive format).

18

DISPLAY (24, 29, 99, 119)

Press to display the disc information or clock in the front panel display.

19

FUNCTION +/— (25, 30, 34, 70, 73, 77, 91, 106)

Press to select the function.

20

PICTURE NAVI (48, 80)

Press to select the viewer format for searching the chapters, titles and tracks.

Press to display the thumbnail pictures.

21

REPEAT/FM MODE (45, 72, 86)

Press to listen to a disc, a single track or file repeatedly.

Press to select FM reception mode (monaural or stereo).

22

AUDIO (37, 102)

Press to display the current audio signal on the TV screen.

23

SUBTITLE (37)

Press to switch the language of the subtitle (DVD VIDEO only).

D. TUNING (71)

Press to switch to the direct tuning mode.

24

ANGLE (37)

Press to change the angle (DVD VIDEO with multi-angles only).

Continued

25

DVD/TUNER MENU (45, 50, 53, 70, 82)

Press to display the menu items on the TV screen.
Press to preset the radio station.

26

DISPLAY (31, 41, 46, 53, 57, 58, 63, 82, 94, 103, 128)

Press to display the Control Menu on the TV screen.

27

TUNING +/— (70, 71)

Press to tune in the desired station.

◄II SLOW II► (36)

Press to watch the slow-motion play.

◄◄/►► (rewind/fast forward) (35, 73)

Press to find a point in a track, chapter or video file.

28

TV[1] (26)

Press to operate the TV functions.

29

◄II STEP II► (36)

Press to play one frame at a time when playback is paused.

ADVANCE •→ (36)

Press to advance the current scene during playback.

REPLAY ←• (36)

Press to replay the previous scene during playback.

30

RETURN (39, 49, 51, 57, 80)

Press to return to the previous menu on the TV screen.

31

↑/↓/←/→ (29, 30, 41, 70, 79, 94, 97)

Press to select the menu items.

ENTER (29, 30, 35, 46, 50, 56, 57, 58, 63, 70, 79, 94, 97)

Press to enter the settings.

32

DVD TOP MENU (45)

Press to display the DVD title on the TV screen.

33

CLEAR (30, 32, 42, 47, 69, 81)

Press to delete a pre-programmed track or file.

-/--[1)]

Press to enter a single digit or double digit number.

34

Numeric buttons[2)] (26, 35, 46, 59, 64, 71)

Press to select a track, chapter or video file.

Press to enter a password.

10/0[1)]

Press to enter a double digit number.

35

KEY CONTROL ♭/♯ (96)

Press to change the key to suit your vocal range.

SCORE (95)

Press to select the difficulty level for scoring mode.

KARAOKE MODE (92)

Press to select the Karaoke mode.

KARAOKE PON (95)

Press to activate the "KARAOKE PON" function.

36

TIME/TEXT (99, 101)

Press to change the information appearing in the front panel display or on-screen display.

37

SLEEP (32, 97)

Press to set the Sleep Timer.

TV INPUT[1)] (26)

Press to switch the input sources.

38

TIMER MENU (29, 97)

Press to set the clock and the timers.

39

THEATRE SYNC (32)

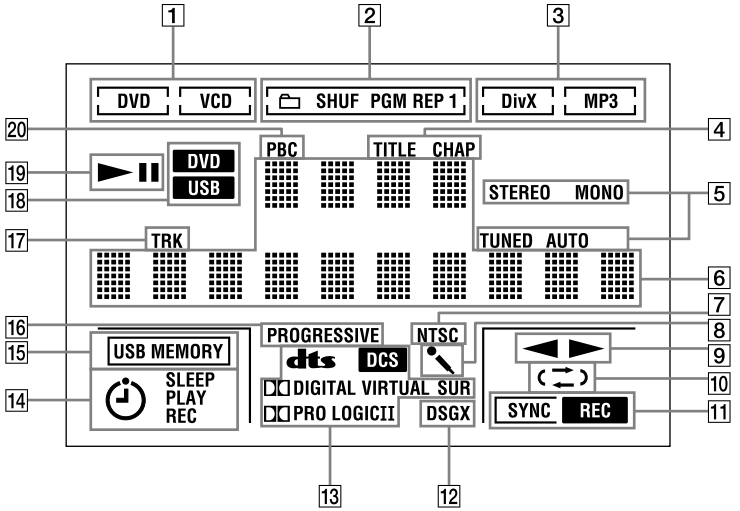
Press to activate the "THEATRE SYNC" function.

[1)] This button is used to operate a Sony TV. For details, see "Operating a Sony TV" (page 26).

[2)] The numeric button 5 34, TV VOL + 8, VOLUME + 8 and ▻ 7 buttons on the remote have a tactile dot. Use the tactile dot as a reference when operating the system.

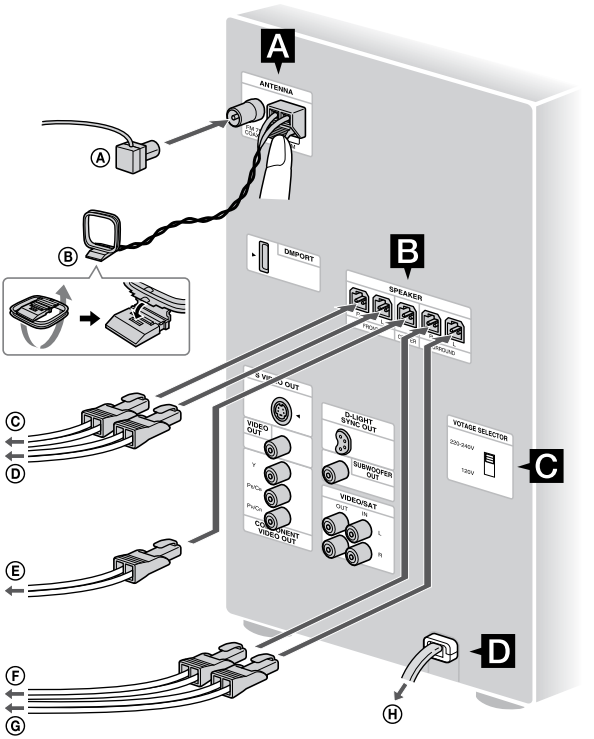
Continued

Display


1
2
3
DVD
VCD
SHUF PGM REP 1
DivX
MP3
20
4
PBC
TITLE CHAP
19
DVD
USB
STEREO MONO
5
18
17
TRK
TUNED AUTO
6
7
16
PROGRESSIVE
NTSC
8
15
USB MEMORY
dts DCS
9
SLEEP
PLAY
REC
10
14
DIGITAL VIRTUAL SUR
PRO LOGICII
DSGX
SYNC REC
11
13
12

1 Indicates the type of disc being played back. (34)
2 Indicates the selected play mode. (41)
3 Indicates the file format.
4 Lights up when the title or chapter number is displayed.
5 Lights up in "TUNER" function. (70)
6 Displays the text information.
7 Lights up when the output video signal is NTSC. (24)
8 Lights up when the Karaoke Mode is turned on. (91)
9 Indicates the playback status of the tape.
10 Indicates the playback direction of the tape.
11 Lights up during recording. (74)
12 Lights up when DSGX is turned on. (87)
13 Indicates the current surround format.
14 Lights up when the timer is set. (97)
15 Lights up when the USB device is recognized. (77)
16 Lights up when "P AUTO" or "P VIDEO" is selected. (25)
17 Indicates the track information.
18 Indicates the selected function.
19 Indicates the playback status of the disc or USB device.
20 Lights up when playing VIDEO CD with PBC. (39)

Hooking up the system



Ⓐ FM lead antenna (Extend it horizontally.)
Ⓑ AM loop antenna
Ⓒ Front speaker (Right)
Ⓓ Front speaker (Left)
Ⓔ Center speaker (DHC-AZ55D only)
Ⓕ Surround speaker (Right) (DHC-AZ55D only)
Ⓖ Surround speaker (Left) (DHC-AZ55D only)
Ⓗ Wall socket

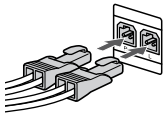
A FM/AM antennas

Find a location and an orientation that provide good reception, and then set up the antenna.
Keep the antennas away from the speaker cords and the power cord to avoid picking up noise.

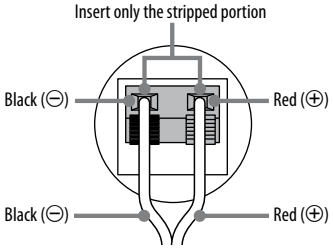
B Speakers

The speaker cord plugs are color-coded with their respective speaker terminals. The type of speakers supplied varies according to the model you purchased (see “About this manual” (page 4)).

Main unit



Center speaker*/Surround speakers*



* DHC-AZ55D only

Notes

- Be sure to connect the speakers securely and correctly. When connecting speaker cords, insert the connector straight into the terminals.
- For DHC-AZ55D, be sure to match the speaker cord to the appropriate terminal on the components: ⊕ to ⊕ and ⊖ to ⊖. If the cords are reversed, the sound will be distorted and will lack bass.

C Voltage selector

For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

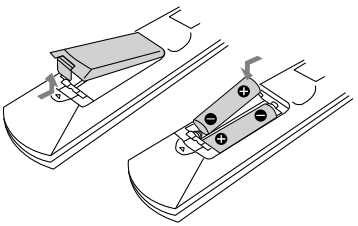
D Power

Connect the power cord to a wall socket. The demonstration appears in the display. When you press **I/⏻** [1], the system turns on and the demonstration automatically ends.
If the supplied adaptor on the plug does not fit your wall socket, detach it from the plug (only for models equipped with an adaptor).

Continued

Inserting two R6 (size AA) batteries into the remote

Slide and remove the battery compartment lid, and insert the two supplied R6 (size AA) batteries, ⊖ side first, matching the polarities shown below.



Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

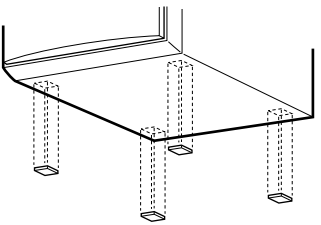
Tip

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

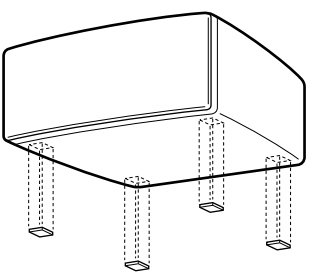
Attaching the speaker pads

Attach the supplied speaker pads at each corner on the bottom of the speakers to prevent them from slipping.

Front speakers (Left (4)/Right (4))



Center speaker (4)*/Surround speakers (Left (4)/Right (4))*



* DHC-AZ55D only

When carrying this system

Perform the following procedure to protect the DVD mechanism. Use buttons on the unit for the operation.

1 Press I/⏻ 1 to turn on the system, then touch DVD 6.

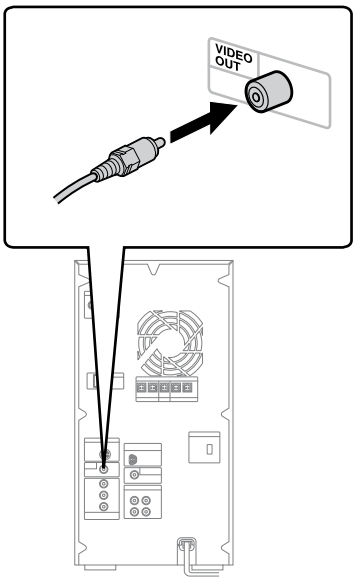
2 Make sure that no disc is loaded in the system and check that "No Disc" appears.

3 Keep touching ◄► 7 and then press I/⏻ 1 until "STANDBY" appears in the display. Then, "MECHA LOCK" appears in the display.

4 Unplug the power cord.

Hooking up the TV

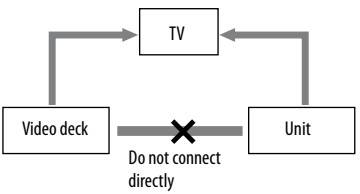
Connect the video input jack of your TV to the VIDEO OUT jack with the supplied video cord.



Continued

When connecting a video deck

Connect the video deck to the TV using a video cord (not supplied). However, do not connect this unit to the TV through the video deck. Otherwise, you may experience video leakage when watching video images from this system. Connect this unit directly to the TV as shown below.



Tip

For higher quality video images:

– Use the optional component video cords to connect the COMPONENT VIDEO input jacks on your TV to the COMPONENT VIDEO OUT jacks of this unit. If your TV is compatible with progressive format file signals, use this connection and press PROGRESSIVE 17 on the unit repeatedly until "P AUTO" or "P VIDEO" appears in the display (page 25).

– You can use an optional S Video cord to connect the S VIDEO input jack on your TV to the S VIDEO OUT jack of this unit.

Changing the color system

(Except for European and Russian models)

Set the color system to PAL or NTSC depending on the color system of your TV.

The default setting for color system is different depending on the area.

Each time you perform the procedure below, the color system changes as follows:

NTSC ⟷ PAL

1 Press I/⏻ 1 to turn off the system.

2 Press DISPLAY 18 repeatedly until "SONY DEMO" appears in the display.

3 Press I/⏻ 1 on the unit while touching ❚❚ 7 on the unit.

The system turns on automatically and the color system is changed.

"COLOR NTSC" or "COLOR PAL" appears in the display.

Changing the format of the video signal output from COMPONENT VIDEO OUT jacks

Progressive is a method for displaying TV images that reduces flickering and sharpens the image. To use this method, you need to connect to a TV that can accept progressive signals.
You can output video signals from COMPONENT VIDEO OUT jacks in Interlace or Progressive format.

1 Press FUNCTION +/— 19 repeatedly to select "DVD" (or touch DVD 6 on the unit).

2 Press PROGRESSIVE 17 on the unit repeatedly.
Select "P AUTO" or "P VIDEO" if your TV accepts progressive signals and the TV is connected to the COMPONENT VIDEO OUT jacks. Otherwise, select "INTERLACE."

P AUTO (PROGRESSIVE AUTO):
The system automatically detects the software type and selects the appropriate conversion method.

P VIDEO (PROGRESSIVE VIDEO):
The system fixes the conversion method to Progressive Video for video-based software.
Select this if the image is not clear when you select "P AUTO."

About DVD VIDEO software types and the conversion method

The DVD VIDEO software can be divided into 2 types:

- Film-based software
  Film-based software is derived from film and displays the images at 24 frames per second.
- Video-based software
  Video-based software is derived from TV, such as dramas and sitcoms and displays images at 30 frames or 60 fields per second.

Some DVD VIDEO contains both types of software. In order for these images to appear in your TV naturally when the video output is in progressive format, the progressive signals need to be converted to match your DVD VIDEO software.

Note
There would be no image on your TV or the image is not clear if your setting does not match your TV or connection.

Continued

When using a TV

Turn on the TV and select the video input so that you can view the pictures from this system.

Operating a Sony TV

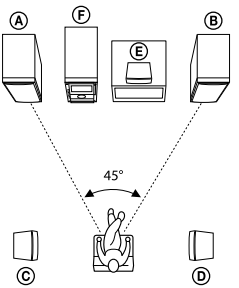
You can use the following buttons to operate a Sony TV. These buttons have been marked in orange.

To	Press
Turn the TV on or off	TV I/⏻ 1 while holding down TV 28
Switch the TV's input source between the TV and other input sources	TV INPUT 37 while holding down TV 28
Select the TV channels	TV CH +/– 7 or numeric buttons 34* while holding down TV 28
Adjust the volume of the TV speaker(s)	TV VOL +/– 8 while holding down TV 28

* For double digit number, hold down TV 28 and press -/-- 33, then press the number. (For example, hold down TV 28, press -/-- 33, then 2 and 5 for entering 25.)

Positioning the speakers

1 Place the front speakers at an angle of 45 degrees from your listening position.

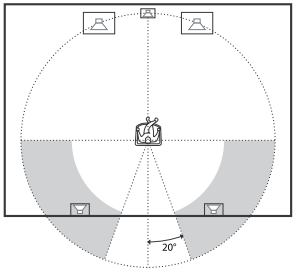


Ⓐ Front speaker (left)
Ⓑ Front speaker (right)
Ⓒ Surround speaker (left) (DHC-AZ55D only)
Ⓓ Surround speaker (right) (DHC-AZ55D only)
Ⓔ Center speaker (DHC-AZ55D only)
Ⓕ Unit

2 Place the center speaker at about the same height as the front speakers.

Align the center speaker with the front speakers or place it slightly behind the front speakers.

3 Place the surround speakers.



Position the surround speakers within the respective gray ranges. Positioning both surround speakers the same distance from the listening position is effective.

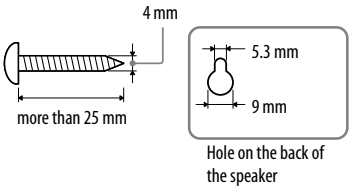
Notes

- Do not place the surround speakers on top of a TV.* This may cause distortion of the colors in the TV screen.
- Be sure to connect the both left and right surround speakers.* Otherwise, the sound will not be heard.
- The subwoofer is an option (sold separately). Refer to the subwoofer operating instructions for the detailed setting method.

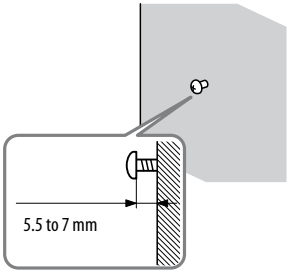
* DHC-AZ55D only

To install the surround speakers on the wall (DHC-AZ55D only)

1 Prepare screws (not supplied) that are suitable for the hole on the back of each speaker. See the illustrations below.

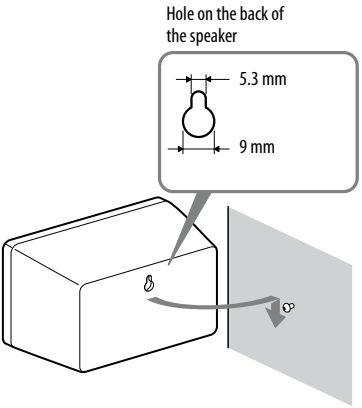


2 Fasten the screws to the wall.
The screws should protrude 5.5 to 7 mm.



Continued

3 Hang the speakers on the screws.



Notes

- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam and fasten them to the wall. Install the surround speakers on a vertical and flat wall where reinforcement is applied.
- Contact a screw shop or installer regarding the wall material or screws to be used.
- Sony is not responsible for accident or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.

Speaker settings

To enjoy DVD VIDEOs and other discs with multichannel sound and Dolby surround effects, the speakers need to be adjusted. Set the distance from the listening position to the speakers, and the balance and level. Then use the test tone to adjust the volume of each speaker to the same level.
For details, see “Setting the speakers” (page 68).

Setting the clock

Use buttons on the remote to set the clock.

1 Press I/⏻ 1 to turn on the system.

2 Press TIMER MENU 38.
The hour indication flashes in the display.
If "PLAY SET?" flashes in the display, press ↑ or ↓ 31 repeatedly to select "CLOCK SET?," then press ENTER 31.

3 Press ↑ or ↓ 31 repeatedly to set the hour.

4 Press ENTER 31.
The minute indication flashes in the display.

5 Press ↑ or ↓ 31 repeatedly to set the minutes.

6 Press ENTER 31.
The clock starts functioning.

Note
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

To display the clock when the system is off

Press DISPLAY 18.
The clock is displayed for about 8 seconds.

Performing "QUICK" setup

Before using the system, you can make the minimum basic adjustments in "QUICK" setup. If you do not want to perform "QUICK" setup, press CLEAR 33 in step 3. The guide message will disappear from the TV screen.

1 Turn on your TV and select the video input.

2 Press I/⏻ 1 to turn on the system.

Notes

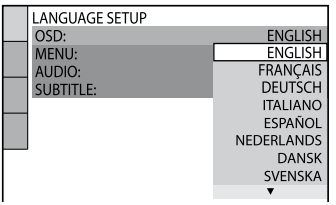
- Make sure there is no disc in the unit. Otherwise, the guide message does not appear. To perform "QUICK" setup, press ⏏ 4 on the unit to remove the disc.
- Make sure that the headphone or microphone is not connected. Otherwise, you cannot perform "SPEAKER SETUP."

3 Press FUNCTION +/— 19 repeatedly to select "DVD" (or touch DVD 6 on the unit).

The guide message appears at the bottom of the TV screen.

4 Press ENTER 31 without inserting a disc.

"LANGUAGE SETUP" appears on the TV screen.



5 Press ↑ or ↓ 31 repeatedly to select a language, then press ENTER 31.

The setting is selected and "SCREEN SETUP" appears on the TV screen.

Tips

- The selected language is for "OSD," "MENU" and "SUBTITLE ."
- The selectable language is different depending on the area.

6 Press ↑ or ↓ 31 repeatedly to select the setting that matches your TV type.

If you have a 4:3 standard TV:
Select "4:3 LETTER BOX" or "4:3 PAN SCAN" (page 65)

If you have a wide-screen TV or a 4:3 standard TV with wide-screen mode:
Select "16:9" (page 65)

7 Press ENTER 31.

DHC-AZ55D:
The setting is selected and the "SPEAKER SETUP" display appears on the TV screen. Go to step 8.

DHC-AZ33D:
The setting is selected and "QUICK SETUP is complete." appears on the TV screen.
The system is ready for playback.
If you want to change each setting individually, see "Using the DVD setup menu" (page 63).

8 Press ↑ or ↓ 31 repeatedly to select the front speaker distance from your listening position, then press ENTER 31.
Repeat this step to adjust the center and surround speaker distance.
The setting is selected and "QUICK SETUP is complete." appears on the TV screen.
The system is ready for playback. To perform further speaker settings, see "Setting the speakers" (page 68).
If you want to change each setting individually, see "Using the DVD setup menu" (page 63).

If you make a mistake

Press ⏮ 7, then select the item again.

To quit "QUICK" setup

Press DISPLAY 26.

Continued

To recall "QUICK" setup settings

1 Press DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (SETUP), then press ENTER 31.

3 Press ↑ or ↓ 31 repeatedly to select "QUICK," then press ENTER 31.

Note
The guide message appears at the bottom of the TV screen when you turn on the system for the first time or after performing "RESET" (page 119).

Using the "THEATRE SYNC" function

THEATRE SYNC 39 allows you to turn on your Sony TV and this system, changes the system's function to "DVD" and then switches the TV's input source you have set with just one button.

Preparing to use the "THEATRE SYNC" function

Register the TV's input source connected to this system.

To select the TV's input

Press the following buttons while holding down SLEEP 37.

Press	TV's input source
0	No input source (Default)
1 to 8	VIDEO 1 to VIDEO 8
9	COMPONENT 1
CLEAR 33	COMPONENT 2
– 7	COMPONENT 3
+ 7	COMPONENT 4

The selected TV's input source is memorized into the remote.

Operating the "THEATRE SYNC" function

Keep the remote pointed in the direction of the TV until the TV is turned on and the input source is changed correctly, then press THEATRE SYNC 39.

If this function does not work, change the transmission time. The transmission time varies depending on the TV.

To change the transmission time

Press the following buttons while holding down ⏭ 7.

Press	Transmission time
1	0.5 (Default)
2	1
3	1.5
4	2
5	2.5
6	3
7	3.5
8	4

Note

This function is only for Sony TV series, however, some TV products may also not work.

Disc

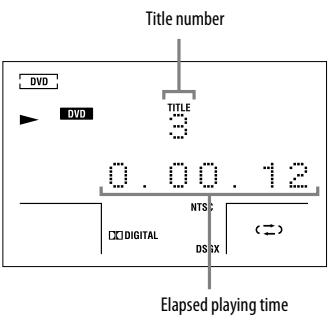
Playing a disc

— Normal Play

DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD

Depending on the DVD VIDEO or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with the disc.

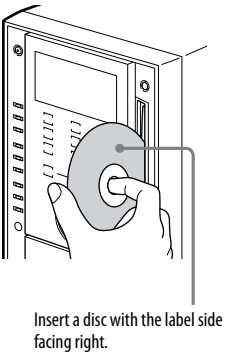
Example: When playing a DVD VIDEO



1 Press FUNCTION +/— 19 repeatedly to select "DVD" (or touch DVD 6 on the unit).

2 Insert a disc in the disc slot 5 with the label side facing right.

If the playback does not start automatically, press ▷ (or touch ◄► on the unit) 7.



3 Press VOLUME +/— (or touch VOLUME +/— on the unit) 8 to adjust the volume.

Notes

- When you turn on the system, the disc is not pulled into the disc slot 5 until "No Disc" appears in the display. Do not attempt to push in the disc until "No Disc" appears.
- When pressing ⏏ 4 on the unit and then reinserting the disc that appears in the disc slot 5, do not simply push in the disc. Remove the disc from the disc slot 5 and then reinsert it.
- Do not turn off the system with a disc halfway inserted in the disc slot 5. Doing so may cause the disc to fall.
- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- When you remove a disc, handle the disc by its edge and pull it straight out of the disc slot 5. Do not touch the surface.
- Do not push a disc into the disc slot 5 when the system is off. Doing so may cause the system to malfunction.
- Do not load an 8 cm disc with an adaptor. Doing so may cause the system to malfunction.
- Depending on the system status, the volume level may not appear on the TV screen.

Other operations

To	Do this
Stop playback	Press ■ 7.
Pause playback	Press ❚❚ 7[1]. Press ❚❚ 7 again or press ▷ (or touch ◀/▶ on the unit) 7 to resume playback.
Select a track, chapter or video file[2]	Press ⏮ or ⏭ 7 repeatedly during playback. Or, press the numeric buttons 34 when the Control Menu is turned off, then press ENTER 31[3].
Select an album[4]	Press 🗀 +/– 7 repeatedly during playback or when playback is paused.
Locate a point quickly in fast forward or fast reverse (Lock Search)[5]	Press ◀◀ or ▶▶ 27 during playback. Each time you press ◀◀ or ▶▶ 27, the playback speed changes cyclically[6]. To return to normal playback, press ▷ (or touch ◀/▶ on the unit) 7.

Continued

To	Do this
Watch frame by frame (Slow-motion Play)[7]	Press ◄‖ SLOW or SLOW ‖► 27 when playback is paused. Each time you press ◄‖ SLOW[8] or SLOW ‖► 27, the playback speed changes. To return to normal playback, press ▷ (or touch ◄‖► on the unit) 7.
Play one frame at a time (Freeze Frame)[7]	Press STEP II► 29 to go to the next frame when playback is paused. Press ◄II STEP 29[9] to go to the preceding frame when playback is paused. To return to normal playback, press ▷ (or touch ◄‖► on the unit) 7.
Replay the previous scene	Press REPLAY ←• 29 during playback. (Instant Replay)[9]
Briefly fast forward the current scene	Press ADVANCE •→ 29 during playback. (Instant Advance)[9]
Remove the disc	Press ⏏ 4 on the unit.

[1] There may be some disturbance in the video image.

[2] Except for JPEG image files. You cannot select an audio track during Lock Search operation of MP3 audio tracks.

[3] DVD VIDEO, DVD-R/-RW in VR mode, VIDEO CD, AUDIO CD and DivX video file only.

[4] MP3 audio tracks, JPEG image files and DivX video files only.

[5] Except for JPEG image files. No sound is output depending on the audio source.

[6] Depending on the disc, the actual speed may differ.

[7] DVD VIDEO, DVD-R/-RW in VR mode, DivX video files and VIDEO CD only. No sound is output depending on the audio source.

[8] Except for VIDEO CD.

[9] DVD VIDEO and DVD-R/-RW in VR mode only.

Notes

- You cannot search for a still picture on a DVD-R/-RW in VR mode.
- You may not be able to use the Instant Replay or Instant Advance function in Repeat Play mode or with some scenes.

Displaying multi-angles and subtitles

Changing the angles

(DVD VIDEO only)
You can change the viewing angle while playing a DVD VIDEO on which various angles (multi-angles) for a scene are recorded.

Press ANGLE 24 repeatedly during playback. Each time you press ANGLE 24, the angle changes.

Note

Depending on the DVD VIDEO, you may not be able to change the angle, even if multi-angles are recorded on the DVD VIDEO.

Displaying the subtitles

(DVD VIDEO, DVD-R/-RW in VR mode and DivX video files only)
You can turn the subtitles on or off while playing a DVD VIDEO, DVD-R/-RW in VR mode or DivX video files on which subtitles are recorded. You can also change the language of the subtitles with DVD VIDEO, DVD-R/-RW in VR mode or DivX video files on which multilingual subtitles are recorded.

Press SUBTITLE 23 repeatedly during playback. Each time you press SUBTITLE 23, the subtitle language changes or turns off.

Notes

- Depending on the DVD VIDEO, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD VIDEO. You also may not be able to turn the subtitles off.
- You can change the subtitles if the DivX video file has an ".AVI" or ".DivX" extension and contains subtitle information within the same file.

Other useful functions

Changing the sound

When playing a DVD VIDEO or a DivX video file recorded in multiple audio formats, you can select the audio format you want. If the DVD VIDEO is recorded with multilingual tracks, you can also change the language.

When playing a VIDEO CD, AUDIO CD or MP3 audio tracks, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. For example, when playing a track with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.

Press AUDIO 22 repeatedly during playback to select the audio signal you want.
The default settings are underlined.

Continued

When playing a DVD VIDEO:
Depending on the DVD VIDEO, the option of language and audio format varies.
When a 4-digit number is displayed, the digits represent a language code (see "Language code list" (page 133)). When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats. Note that the sound changes automatically depending on the disc.

When playing a DVD-R/-RW in VR mode:
The number of audio tracks recorded on a disc are displayed.
Example:

- 1: MAIN: the main sound of the audio track 1.
- 1: SUB: the sub sound of the audio track 1.
- 1: MAIN+SUB: the main and sub sound of the audio track 1.
- 2: MAIN*: the main sound of the audio track 2.
- 2: SUB*: the sub sound of the audio track 2.
- 2: MAIN+SUB*: the main and sub sound of the audio track 2.

* These items do not appear if only one audio stream is recorded on the disc being played back.

When playing a DivX video file:
The options for audio format differ depending on the DivX video files.

When playing a VIDEO CD, AUDIO CD, or MP3 audio track:

- STEREO: the standard stereo sound.
- 1/L: the sound of the left channel (monaural).
- 2/R: the sound of the right channel (monaural).

When playing a Super VCD:

- 1: STEREO: the stereo sound of the audio track 1.
- 1: 1/L: the sound of the left channel of the audio track 1 (monaural).
- 1: 2/R: the sound of the right channel of the audio track 1 (monaural).
- 2: STEREO: the stereo sound of the audio track 2.
- 2: 1/L: the sound of the left channel of the audio track 2 (monaural).
- 2: 2/R: the sound of the right channel of the audio track 2 (monaural).

Playing VIDEO CDs with PBC functions (Version 2.0) — PBC Playback

(VIDEO CD only)
You can use the PBC (Playback Control) menus on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

1 Press ▷ (or touch ◀▶ on the unit) 7 to start playing a VIDEO CD with PBC functions (Version 2.0).
The PBC menu appears on the TV screen. Depending on the VIDEO CD, the menu may not appear.

2 Press the numeric buttons 34 to select the item number you want.

3 Press ENTER 31.
Depending on the VIDEO CD, "Press ENTER" may appear as "Press SELECT" in the operating instructions supplied with the disc. In this case, press ▷ (or touch ◀▶ on the unit) 7.

4 Continue playback according to the instructions on the menus.
Refer to the operating instructions supplied with the VIDEO CD, as the operating procedure may differ depending on the VIDEO CD.

To return to the previous menu
Press ↶ RETURN 30.

Note
PBC playback is canceled when Shuffle Play, Program Play or Repeat Play is activated.

To cancel playback with PBC functions

1 Press ⏮ or ⏭ 7 repeatedly or press the numeric buttons 34 to select a track when playback is stopped.

2 Press ▷ (or touch ◀▶ on the unit) 7 or ENTER 31.
Playback starts from the selected track. Still images, such as the menu screens, will not be shown.
To return to PBC playback, press ■ 7 twice, then press ▷ (or touch ◀▶ on the unit) 7.

Resuming playback from the point you stopped the disc — Resume Play

This system memorizes the point where you stopped the disc so you can resume playback from that point. Resume Play is not canceled when you turn off the system except for MP3 audio tracks, JPEG image files and DivX video files.

Continued ⇨

1 While playing a disc, press ■ 7 to stop playback.
"Resume" appears in the display.
If "Resume" does not appear, Resume Play is not available.

2 Press ▷ (or touch ◄► on the unit) 7.
The system starts playback from the point you stopped the disc in step 1.

Notes

- You cannot perform Resume Play during Shuffle Play or Program Play.
- This function may not work properly with some discs.
- Resume Play is canceled when
  - you press ■ 7 when playback is stopped.
  - you eject the disc.
  - you change the function.
  - you change the settings in the Setup Menu.
  - you changed the Parental Control level.

Tip

To play back from the beginning of the disc, press ■ 7 twice, then press ▷ (or touch ◄► on the unit) 7.

Resuming playback of a disc that was stopped — Multi-disc Resume

(DVD VIDEO and VIDEO CD only)
This system can store the point where you stopped the playback of the disc for up to 40 discs and resumes playback when you insert the same disc again. If you store a playback resume point for the 41st disc, the playback resume point for the first disc will be deleted.
To activate this function, set "MULTI-DISC RESUME" in "CUSTOM SETUP" to "ON" (page 67).

Note

If "MULTI-DISC RESUME" in "CUSTOM SETUP" is set to "ON" and you play back a recorded disc such as DVD-R, the system may play back other recorded discs from the same playback resume point. To start playback from the beginning of the disc, press ■ 7 twice and then press ▷ (or touch ◄► on the unit) 7.

Using play mode

Creating your own program

— Program Play

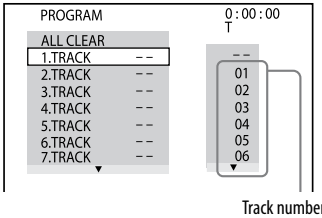
VIDEO CD CD

You can make a program of up to 99 steps in the order you want them to be played back.

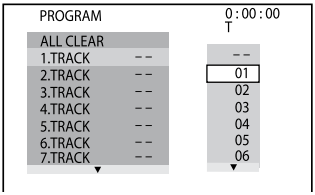
1 Press DISPLAY 26.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (PROGRAM), then press ENTER 31.
The options for "PROGRAM" appear on the TV screen.

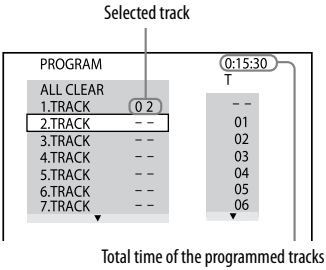
3 Press ↑ or ↓ 31 repeatedly to select "SET→," then press ENTER 31.



4 Press → 31.
The cursor moves to the track list "T" (in this case, "01").



5 Select the track you want to program.
For example, select track "02."
Press ↑ or ↓ 31 repeatedly to select "02" under "T," then press ENTER 31.



6 To program other tracks, repeat steps 4 to 5.

Continued

7 Press ▷ (or touch ◄► on the unit) 7.

Program Play starts.
When the Program Play ends, you can restart the same program by pressing ▷ (or touch ◄► on the unit) 7.

To change a programmed step:
Press ↑ or ↓ 31 repeatedly to select the programmed step number you want to change. Then, press → 31.

To delete a programmed step:
Press ↑ or ↓ 31 repeatedly to select the programmed step number you want to delete. Then, press CLEAR 33.

To delete all of the programmed steps in the program list:
Press ↑ 31 to select "ALL CLEAR." Then, press ENTER 31.

To cancel Program Play

Press CLEAR 33 or select "OFF" in step 3. To play back the same program again, select "ON" in step 3 and press ENTER 31.

To turn off the Control Menu

Press DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes

- When Program Play is activated, the "REPEAT" setting is automatically changed to "ON" if the current setting is "DISC" or "TRACK."
- You cannot perform Program Play with VIDEO CDs during PBC playback.

Tip

The Program Play is canceled and the program list is cleared when

- you eject the disc.
- you turn off the system.
- you change the function.

Playing in random order

— Shuffle Play

VIDEO CD CD DATA CD DATA DVD

You can play back the tracks on the disc in random order. Each time you perform Shuffle Play, the playing order may differ.

1 Press DISPLAY 26.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (SHUFFLE), then press ENTER 31.
The options for "SHUFFLE" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.

When playing a VIDEO CD or AUDIO CD:

- TRACK: all tracks on the disc is played back randomly.

When Program Play is activated:

- ON: all tracks in the program list is played back randomly.

When playing a DATA CD/DVD (except for DivX video files):

- ON (MP3): all MP3 audio tracks in the selected album on the disc are played back randomly.
  When no album is selected, the first album is played back randomly.

4 Press ENTER 31.

5 Press ▷ (or touch ◄► on the unit) 7.
Shuffle Play starts.
To cancel Shuffle Play, press CLEAR 33 or select "OFF" in step 3.

To turn off the Control Menu

Press DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes

- Shuffle Play is canceled when
  - you eject the disc.
  - you turn off the system.
  - you change the function.
  - you perform Track/Index Search.
- You cannot perform Shuffle Play with VIDEO CDs during PBC playback.
- The same song may be played back repeatedly for MP3 audio tracks.

Continued

Playing repeatedly

— Repeat Play

DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD

You can play back all the titles, tracks, files or a single title, chapter, track or file on a disc repeatedly.
You can select Shuffle Play and Program Play at the same time.

1 Press DISPLAY 26.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (REPEAT), then press ENTER 31.
The options for "REPEAT" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.
The default setting is underlined.

When playing a DVD VIDEO or DVD-R/DVD-RW in VR mode:

- OFF: does not play back repeatedly.
- DISC: repeats all the titles on the disc.
- TITLE: repeats the current title.
- CHAPTER: repeats the current chapter.

When playing a VIDEO CD or AUDIO CD:

- OFF: does not play back repeatedly.
- DISC: repeats all the tracks on the disc.
- TRACK: repeats the current track.

When playing a DATA CD or DATA DVD:

- OFF: does not play back repeatedly.
- DISC: repeats all the albums on the disc.
- ALBUM: repeats the current album.
- TRACK[1]: repeats the current track.
- FILE[2]: repeats the current file.

[1] MP3 audio tracks only.
[2] DivX video files only.

When Program Play or Shuffle Play is activated:

- OFF: does not play back repeatedly.
- ON: repeats the Program Play or Shuffle Play.

4 Press ENTER 31.

5 Press ▷ (or touch ◄► on the unit) 7.

Repeat Play starts.
To cancel Repeat Play, press CLEAR 33 or select "OFF" in step 3.

To turn off the Control Menu

Press ▭ DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes

- You can also change the Repeat Play setting by pressing REPEAT/FM MODE 21 repeatedly.
- "REP" lights up in the display when Repeat Play is set to "DISC," "ALBUM" or "ON."
- "REP1" lights up in the display when Repeat Play is set to "TITLE," "CHAPTER," "TRACK" or "FILE."
- Depending on the DVD VIDEO, you cannot perform Repeat Play.
- You cannot perform Repeat Play with VIDEO CDs during PBC playback.
- When playing a DATA CD/DVD which contains MP3 audio tracks and JPEG image files, the audio sound will not match the image if their playing time are different.
- You cannot select "TRACK" when "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" (page 53).
- Repeat Play is canceled when
  - you eject the disc.
  - you turn off the system.
  - you change the function.

Searching/selecting a disc

Playing DVD VIDEOs using the menu

DVD-V

Some DVD VIDEOs have menus to help you enjoy the DVD VIDEOs. You can play back DVD VIDEOs using these menus on the TV screen.

Using DVD TOP MENU

A DVD VIDEO contains a lot of sections of picture or music feature called "title." When you play back a DVD VIDEO which contains several titles, you can select the title you want using DVD TOP MENU 32.

Using DVD MENU

Some DVD VIDEOs allow you to select the disc contents using a menu. When you play back these DVD VIDEOs, you can select items such as the language for the subtitles and the language for the sound using DVD/TUNER MENU 25.

Continued ⇨

1 Press DVD TOP MENU 32 or DVD/TUNER MENU 25.
The menu appears on the TV screen. The contents of the menu vary depending on the disc.

2 Press ↑/↓/←/→ 31 or the numeric buttons 34 to select the title or item you want to play back.

3 Press ENTER 31.

Selecting "ORIGINAL" or "PLAY LIST" on a DVD-R/-RW in VR mode

DVD-VR

This function is only available for DVD-Rs/-RWs in VR mode with a playlist created.

1 Press DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (ORIGINAL/PLAY LIST), then press ENTER 31.
The options for "ORIGINAL/PLAY LIST" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.
- PLAY LIST: play back according to the playlist created on the disc.
- ORIGINAL: play back according to the originally recorded sequence.

4 Press ENTER 31.

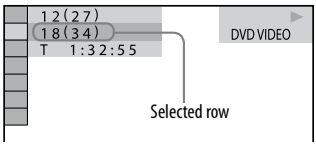
Using the on-screen display to search for a title/chapter/scene/track/index/album/file

DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD

You can search by different information recorded on a disc, such as title, track, and album. Each item is assigned a unique number on the disc, and you can select the numbered item you want from the Control Menu. You can also search for a particular point using the time code (Time Search) (DVD VIDEO and DVD-R/-RW in VR mode only).

1 Press DISPLAY 26. When playing a DATA CD/DVD with JPEG image files, press DISPLAY 26 twice.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select the search item.
Example: when you select (CHAPTER)
"** (**)" is selected (** refers to a number). The number in parentheses indicates the total number of titles, chapters, tracks, indexes, scenes, albums or files.



3 Press ENTER 31.
"** (**)" change to "– – (**)".

4 Press ↑ or ↓ 31 repeatedly or the numeric buttons 34 to select the title, track, album or file, etc.
If you make a mistake, press CLEAR 33 to cancel the number.

5 Press ENTER 31.
The system starts playback from the selected title, track, album or file, etc.

To turn off the Control Menu

Press DISPLAY 26 repeatedly until the Control Menu disappears.

Tip

When the Control Menu display is turned off, you can search for a chapter (DVD VIDEO and DVD-R/-RW in VR mode) or track (AUDIO CD and VIDEO CD) or file (DivX video files in DATA CD/DVD) by pressing the numeric buttons 34 and ENTER 31.

Continued

To search for a particular point using the time code — Time Search

(DVD VIDEO and DVD-R/-RW in VR mode only)

1 Press DISPLAY 26.

2 Press ↑ or ↓ 31 repeatedly to select (TIME/TEXT).
"T **:**:**" (elapsed playing time of the current title) is selected.

3 Press ENTER 31.
"T **:**:**" changes to "T--:--:--".

4 Input the time code using the numeric buttons 34, then press ENTER 31.
For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, enter "21020".
If you make a mistake, press CLEAR 33 to cancel the number.

Note

Depending on the disc, you cannot perform Time Search.

Searching by scene

— Picture Navigation

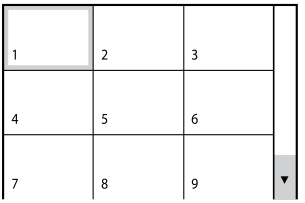
DVD-V VIDEO CD

1 Press PICTURE NAVI 20 repeatedly to select the viewer format you want to search in.

- CHAPTER VIEWER (DVD VIDEO)
- TITLE VIEWER (DVD VIDEO)
- TRACK VIEWER (VIDEO CD or Super VCD)

2 Press ENTER 31.

The first scene of the first 9 chapters, titles or tracks appears. If there are more than 9 chapters, titles, or tracks, "▼" appears at the bottom right of the screen.



3 Press ↑/↓/←/→ 31 to select a chapter, title or track, then press ENTER 31.

The system starts playing from the selected scene.

To cancel searching

Press ↶ RETURN 30 or ▭ DISPLAY 26.

Note

Depending on the disc, you may not be able to select some items.

Tip

To display the remaining chapters, titles, or tracks, select a scene at the bottom row and press ↓ 31. To return to the previous scene, select a scene at the top row and press ↑ 31.

Playing MP3/JPEG discs

DATA CD DATA DVD

Notes

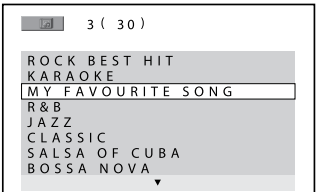
- The system can play back up to 200 albums, including albums that do not contain MP3 audio tracks and JPEG image files.
- The system can play back MP3 audio tracks and JPEG image files. The system will play back any data with the extension ".MP3", ".JPG" or ".JPEG" even if they are not in MP3 or JPEG format. Playing this data may generate a loud noise which could damage your speaker system.
- Depending on the encoding/writing software, recording device, or the recording media used to record an MP3 audio track, you may encounter problems such as cannot play back, sound interruptions and noise.
- The following discs/situations can increase the time it takes to start playback:
  - a disc recorded with a complicated tree structure.
  - a disc recorded in Multi Session.
  - a disc to which data can be added (non-finalized disc).
  - when the tracks or files in another album have just been played back.
- Some CD-Rs/-RWs or DVD-Rs/-RWs/+Rs/+RWs cannot be played back on the system depending on the file format.
- The system can play back to a depth of 8 folders only.

Continued

Selecting an MP3 audio track or album

1 Insert a disc in the disc slot 5.
The system starts playing the first album.

2 Press DVD/TUNER MENU 25.
The album list appears on the TV screen.

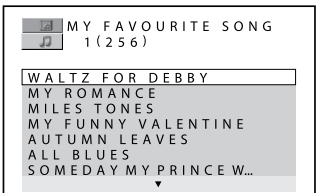


3 Press ↑ or ↓ 31 repeatedly to select an album.

Playing an album:
Press ▷ (or touch ◀/▶ on the unit) 7.
The system starts playback from the first track of the selected album.
To stop playback, press ■ 7.

Playing a track:

1 Press ENTER 31.
The list of MP3 audio tracks of the selected album appears.



2 Press ↑ or ↓ 31 repeatedly to select the MP3 audio track you want, then press ENTER 31.
The system starts playing the selected MP3 audio track.
To stop playback, press ■ 7.

To display the next or previous page of track list or album list

Press ← or → 31 repeatedly when the track list or album list is displayed.

To play back the next album of MP3 audio tracks

You can select the next album by pressing ⏭ 7 repeatedly until the last track of the current album, then press ⏭ 7 once. The first track of the next album is selected. However, you cannot select the previous album by pressing ⏮ 7 repeatedly. To select the previous album, select the album from the album list.

To return to the album list when the track list is displayed

Press ↩ RETURN 30.

To turn on or off the album list or track list

Press DVD/TUNER MENU 25 repeatedly.

Selecting a JPEG image file or album

1 Insert a disc in the disc slot 5.
The system starts playing the first album.

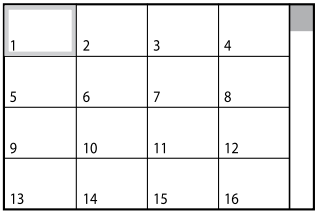
2 Press DVD/TUNER MENU 25.
The album list appears on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select an album.

Playing an album:
Press ▷ (or touch ◀▶ on the unit) 7.
The system starts a slide show from the first image file of the selected album.

Playing an image file:

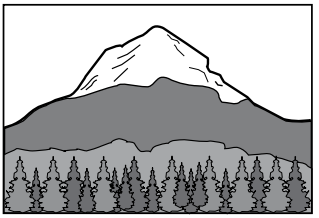
1 Press PICTURE NAVI 20.
Thumbnail picture for the first 16 JPEG image files in the selected album is displayed.



If there are more than 16 image files in the selected album, the scroll bar appears at the right.

Continued ⇨

2 Press ↑/↓/←/→ 31 to select the image you want to view, then press ▷ (or touch ◀■▶ on the unit) 7.
The slide show starts from the selected image file.
To stop playback, press ■ 7.



To display the next or previous page of album list

Press ← or → 31 repeatedly when the album list is displayed.

To display the next or previous JPEG image file

Press ← or → 31 repeatedly during the slide show.

To play back the next album of JPEG image files

You can select the next album by pressing → 31 repeatedly until the last file of the current album, then press → 31 once.
The first file of the next album is selected. However, you cannot select the previous album by pressing ← 31 repeatedly. To select the previous album, select the album from the album list.

To turn on or off the album list

Press DVD/TUNER MENU 25 repeatedly.

To rotate a JPEG image file

When a JPEG image file is displayed on the TV screen, you can rotate the image by 90 degrees.
Press ↑ or ↓ 31 repeatedly while viewing an image.
Press CLEAR 33 to return to the original view.

Notes

- The PICTURE NAVI 20 button does not work when "MODE (MP3, JPEG)" is set to "AUDIO (MP3)."
- When you press ← or → 31 to select the next or previous image, the image will return to its original view even if you have rotated the image previously.
- The slide show stops when you press ↑ or ↓ 31.

Playing MP3 audio tracks and JPEG image files as a slide show with sound

DATA CD DATA DVD

You can play back a slide show with sound by first placing both JPEG image files and MP3 audio tracks in the same album on a DATA CD/DVD.

1 Insert a disc in the disc slot 5.
The system starts playing the first album.

2 Press ■ 7 to stop playback.

3 Press DISPLAY 26.
The Control Menu appears on the TV screen.

4 Press ↑ or ↓ 31 repeatedly to select (MODE (MP3, JPEG)), then press ENTER 31.
The options for "MODE (MP3, JPEG)" appear on the TV screen. The default setting is underlined.
- AUTO: Plays back both JPEG image files and MP3 audio tracks in the same album as a slide show with sound.
- AUDIO (MP3): Plays back MP3 audio tracks continuously.
- IMAGE (JPEG): Plays back JPEG image files as a slide show.

5 Press ↑ or ↓ 31 repeatedly to select "AUTO," then press ENTER 31.

6 Press DVD/TUNER MENU 25.
The album lists appear on the TV screen.

7 Press ↑ or ↓ 31 repeatedly to select the album you want, then press ▷ (or touch ◀■▶ on the unit) 7.
The slide show with sound starts from the selected album.
To stop playback, press ■ 7.

To turn on or off the album list

Press DVD/TUNER MENU 25 repeatedly.

To cancel slide show with sound

Select "AUDIO (MP3)" or "IMAGE (JPEG)" in step 5.

Notes

- In some cases, you cannot change the "MODE (MP3, JPEG)" setting when "MODE (MP3, JPEG)" has been set to
  - "IMAGE (JPEG)" and the selected disc only contains MP3 audio tracks.
  - "AUDIO (MP3)" and the selected disc only contains JPEG image files.

Continued

- The maximum number of MP3 audio tracks or JPEG image files on an album which this system can recognize is:
  - 600 when "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" or "IMAGE (JPEG)."
  - 300 when "MODE (MP3, JPEG)" is set to "AUTO."
- If there are no MP3 audio tracks in the disc, "No audio data" appears on the TV screen and the disc cannot be played back.
- If there are no JPEG image files in the disc, "No image data" appears on the TV screen and the disc cannot be played back.
- If you play back a large data size of MP3 audio tracks and JPEG image files at the same time, the sound may skip.

Specifying the slide show speed

(JPEG image files only)

1 Press DISPLAY 26 repeatedly until the Control Menu for JPEG image files appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (INTERVAL), then press ENTER 31.
The options for "INTERVAL" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the transition interval you want.
The default setting is underlined.
- NORMAL: Sets the duration to about 6 to 9 seconds (Images that are 3,000,000 pixels or more will lengthen the duration).
- FAST: Sets the duration shorter than "NORMAL."
- SLOW 1: Sets the duration longer than "NORMAL."
- SLOW 2: Sets the duration longer than "SLOW 1."

4 Press ENTER 31.
The selected setting takes effect.

Note

Some JPEG image files (especially progressive JPEG image files or JPEG image files with 3,000,000 pixels or more) may take a longer time to display than others, which may make the transitions seem longer than that of the option you selected.

Selecting a transition effect for image files in the slide show

(JPEG image files only)

1 Press DISPLAY 26 repeatedly until the Control Menu for JPEG image files appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (EFFECT), then press ENTER 31.
The options for "EFFECT" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.
The default setting is underlined.
- MODE 1: The image sweeps in from top to bottom of the screen.
- MODE 2: The image sweeps in from left to right of the screen.
- MODE 3: The image stretches out from the center of the screen.
- MODE 4: The images randomly cycle through the effects.
- MODE 5: The next image slides over the current image.
- OFF: Turns off this function.

4 Press ENTER 31.
The selected setting takes effect.

Enjoying DivX® video files

DATA CD DATA DVD

About DivX Video Files

DivX® is a video file compression technology, developed by DivX, Inc. This product is an official DivX® Certified product.
This system can play back files which have the extension ".AVI" or ".DIVX" that contain data in DivX format.

Notes

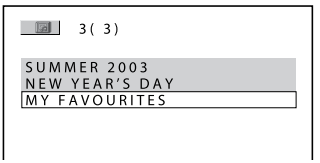
- The system may not play back a DivX video file when the file has been combined from two or more DivX video files.
- The system cannot play back a DivX video file size of more than 720 (width) × 576 (height)/2GB.
- Depending on the DivX video file, the picture may be unclear or the sound may skip.
- The system cannot play back some DivX video files that are longer than 3 hours.

Continued

Playing an album of DivX video files or a DivX video file

1 Insert a DATA CD/DVD with DivX video files in the disc slot 5.
The system starts playing the first album.

2 Press DVD/TUNER MENU 25.
The album list appears on the TV screen.

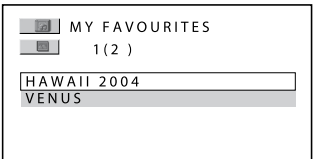


3 Press ↑ or ↓ 31 repeatedly to select an album.

Playing an album:
Press ▷ (or touch ◀▶ on the unit) 7.
The system starts playing the first DivX video file of the selected album.
To stop playback, press ■ 7.

Playing a DivX video file:

1 Press ENTER 31.
The list of DivX video files of the selected album appears.



2 Press ↑ or ↓ 31 repeatedly to select the DivX video file you want, then press ENTER 31.
The system starts playing the selected of DivX video files.
To stop playback, press ■ 7.

To display the next or previous page of file list or album list

Press ← or → 31 repeatedly when the file list or album list is displayed.

To play back the next album of DivX video files

You can select the next album by pressing ▶▶| 7 repeatedly until the last file of the current album, then press ▶▶| 7 once. The first file of the next album is selected. However, you cannot select the previous album by pressing |◀◀ 7 repeatedly. To select the previous album, select the album from the album list.

To return to the album list when the file list is displayed

Press ↩ RETURN 30.

To turn on or off the album list

Press DVD/TUNER MENU 25 repeatedly.

Notes

- Depending on the DivX video file, the picture may pause or be unclear. In this case, it is recommended that you create the file at a lower bit rate. If the sound is still noisy, MP3 is the recommended audio format. Note that, this system does not conform to WMA (Windows Media Audio) format.
- Due to the compression technology used for DivX video files, it may take some time after you press ▷ 7 for the picture to appear.
- Depending on the DivX video file, the sound may not match the pictures on the screen.
- The system can recognize up to 600 DivX video files in a single album. A maximum of 200 albums can be recognized.

Tip

If the number of viewing times has been preset, you can play back the DivX video files as many times as the preset number. The following occurrences are counted:

— when the system is turned off.
— when the disc is removed.
— when another DivX video file is played back.

Adjusting the delay between the picture and sound

— "A/V SYNC"

DVD-V DVD-VR VIDEO CD DATA CD DATA DVD

When the sound does not synchronize with the pictures on the screen, you can adjust the delay between the picture and sound.

1 Press DISPLAY 26.

The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (A/V SYNC), then press ENTER 31.

The options for "A/V SYNC" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.

The default setting is underlined.

- OFF: Does not adjust.
- ON: Adjusts the difference between picture and sound.

4 Press ENTER 31.

Note

Depending on the input stream, this function may not be effective.

Restricting playback of the disc

— CUSTOM PARENTAL CONTROL/ PARENTAL CONTROL

DVD-V VIDEO CD CD

You can set 2 kinds of playback restrictions for the disc you want.

Custom Parental Control
You can set playback restrictions so that the system will not play back inappropriate discs.

Parental Control
You can limit the playback of some DVD VIDEOs according to a predetermined level such as the age of the users. When a limited scene is played back, that scene may be skipped or replaced with different scenes.

The same password is used for both Custom Parental Control and Parental Control.

Preventing playback of specific discs

— CUSTOM PARENTAL CONTROL

You can set the same Custom Parental Control password for up to 40 discs. When you set the 41st-disc, the playback restriction for the first disc is canceled.

1 Insert the disc you want to set the playback restriction.
If the disc is playing, press ■ 7 to stop playback.

2 Press DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select (PARENTAL CONTROL), then press ENTER 31.
The options for "PARENTAL CONTROL" appear on the TV screen.

4 Press ↑ or ↓ 31 repeatedly to select "ON →," then press ENTER 31.

If you have not registered a password:
The display for registering a new password appears.

Enter a 4-digit password using the numeric buttons 34, then press ENTER 31.
The display for confirming the password appears on the TV screen.

When you have already registered a password:
The display for entering the password appears on the TV screen.

5 Enter or re-enter your 4-digit password using the numeric buttons 34, then press ENTER 31.

"Custom parental control is set." appears on the TV screen and the screen returns to the Control Menu.

If you make a mistake when entering your password

Press ← 31 repeatedly to delete the number you have entered, then re-enter your password again.

To turn off the Custom Parental Control function

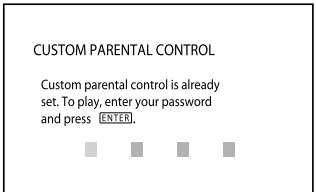
1 Follow steps 1 through 3 of "Preventing playback of specific discs" (page 58).

2 Press ↑ or ↓ 31 repeatedly to select "OFF →," then press ENTER 31.

3 Enter your 4-digit password using the numeric buttons 34, then press ENTER 31.

To play back a disc for which Custom Parental Control is set

1 Insert the disc for which Custom Parental Control is set.
The "CUSTOM PARENTAL CONTROL" display appears.



Continued

2 Enter your 4-digit password using the numeric buttons 34, then press ENTER 31.
The system is ready for playback.

Tip
If you forget your password, enter the 6-digit number "199703" using the numeric buttons 34 when the "CUSTOM PARENTAL CONTROL" display asks you for your password, then press ENTER 31. The display will ask you to enter a new 4-digit password.

Limiting playback for children

— PARENTAL CONTROL
(DVD VIDEO only)

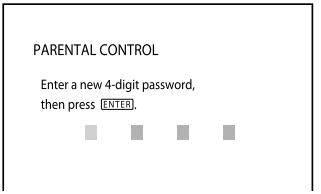
You can limit the playback of some DVD VIDEOs according to a predetermined level such as the age of the users.

1 Press DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (PARENTAL CONTROL), then press ENTER 31.
The options for "PARENTAL CONTROL" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select "PLAYER →," then press ENTER 31.

If you have not registered a password:
The display for registering a new password appears.

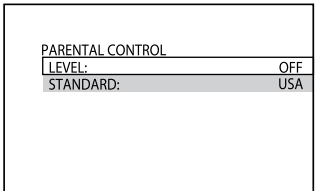


Enter a 4-digit password using the numeric buttons 34, then press ENTER 31.
The display for confirming the password appears on the TV screen.

When you have already registered a password:
The display for entering the password appears on the TV screen.

4 Enter or re-enter your 4-digit password using the numeric buttons 34, then press ENTER 31.

The display for setting the playback limitation level appears.



5 Press ↑ or ↓ 31 repeatedly to select "STANDARD," then press ENTER 31.

The options for "STANDARD" appear on the TV screen.

6 Press ↑ or ↓ 31 repeatedly to select a geographic area as the playback limitation level, then press ENTER 31.

The area is selected.
When you select "OTHERS →," enter the area code for the geographic area you want by using the numeric buttons 34 (see "Parental Control area code list" (page 134)).

7 Press ↑ or ↓ 31 repeatedly to select "LEVEL," then press ENTER 31.

The options for "LEVEL" appear on the TV screen.

8 Press ↑ or ↓ 31 repeatedly to select the level you want, then press ENTER 31.

Parental Control setting is completed. The lower the value, the stricter the limitation.

If you make a mistake when entering your password

Press ← 31 repeatedly to delete the number you have entered, then re-enter your password again.

To turn off the Parental Control function

Set "LEVEL" to "OFF."

To play back a disc for which Parental Control is set

1 Insert the disc and press ▷ (or touch ◀▶ on the unit) 7.

The display for entering your password appears on the TV screen.

2 Enter your 4-digit password using the numeric buttons 34, then press ENTER 31.

The system starts playback.

Continued ⇨

Notes

- The Control Menu display will show different items depending on the disc type.
- When you play back DVD VIDEOs which do not have the Parental Control function, playback cannot be limited on this system.
- Depending on the DVD VIDEO, you may be asked to change the Parental Control level while playing the disc. In this case, enter your password, then change the level. If Resume Play is canceled, the level returns to the original level.

Tip

If you forget your password, remove the disc and repeat steps 1 to 3 of "Limiting playback for children." When you are asked to enter your password, enter "199703" using the numeric buttons 34, then press ENTER 31. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, reinsert the disc and press ▷ (or touch ◀▶ on the unit) 7. When the display for entering your password appears, enter your new password.

Changing the password

1 Press DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (PARENTAL CONTROL), then press ENTER 31.
The options for "PARENTAL CONTROL" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select "PASSWORD →," then press ENTER 31.
The display for entering the password appears on the TV screen.

4 Enter your 4-digit password using the numeric buttons 34, then press ENTER 31.

5 Enter a new 4-digit password using the numeric buttons 34, then press ENTER 31.

6 To confirm your password, re-enter it using the numeric buttons 34, then press ENTER 31.

If you make a mistake when entering your password

Press ← 31 repeatedly to delete the number you have entered, then re-enter your password again.

Using the DVD setup menu

By using the DVD setup menu, you can make various adjustments to items such as picture and sound.

Note

Playback settings stored in the disc take priority over the DVD setup menu settings. Therefore, some of the DVD setup menu settings may not be performed.

1 Press DISPLAY 26 when playback is stopped.

The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (SETUP), then press ENTER 31.

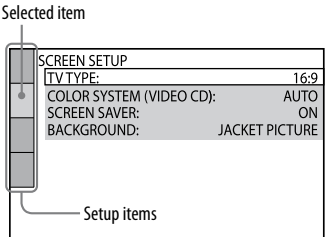
The options for "SETUP" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select "CUSTOM," then press ENTER 31.

The Setup menu appears on the TV screen.

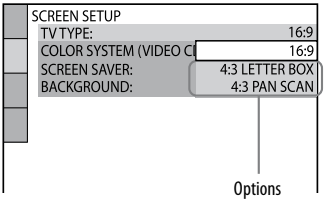
4 Press ↑ or ↓ 31 repeatedly to select the setup item from the displayed list: "LANGUAGE SETUP," "SCREEN SETUP," "CUSTOM SETUP" or "SPEAKER SETUP." Then press ENTER 31.

The setup item is selected.
Example: "SCREEN SETUP"



5 Press ↑ or ↓ 31 repeatedly to select the item you want, then press ENTER 31.

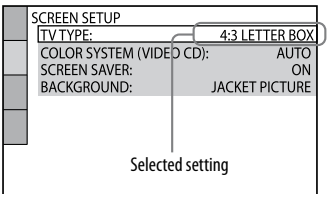
The options for the selected item appear on the TV screen.
Example: "TV TYPE"



Continued

6 Press ↑ or ↓ 31 repeatedly to select the setting you want, then press ENTER 31.

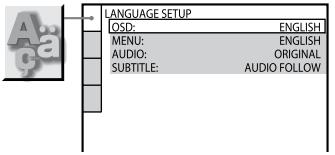
The setting is selected and setup is completed.



DVD setup menu item list

Setting the language — "LANGUAGE SETUP"

Set various languages for the on-screen display or sound track.



OSD
(On-Screen Display)
Switches the language of the on-screen display.

MENU*
(DVD VIDEO only)
Select the language for the DVD menu.

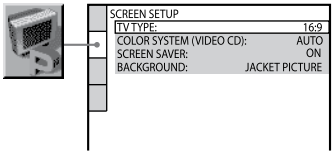
AUDIO*
(DVD VIDEO only)
Switches the language of the sound track. When you select "ORIGINAL," the language given priority in the disc is selected.

SUBTITLE*
(DVD VIDEO only)
Switches the language of the subtitle. When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language you selected for the sound track.

* When you select a language in "MENU," "SUBTITLE," or "AUDIO" that is not recorded on the DVD VIDEO, one of the recorded language is automatically selected. However, depending on the disc, the language may not be selected automatically.
If you select "OTHERS →" in "MENU," "SUBTITLE" and "AUDIO," enter a language code using the numeric buttons 34 (see "Language code list" (page 133)).

Setting the TV screen — "SCREEN SETUP"

Choose the settings according to the TV you connected.
The default setting is underlined.



TV TYPE[1)]

(DVD VIDEO only)
16:9: Select this when you connect a wide-screen TV or a TV with a wide mode function.

4:3 LETTER BOX: Select this when you connect a 4:3 screen TV. This setting displays a wide picture with bands on the upper and lower portions of the screen.

4:3 PAN SCAN[2)]: Select this when you connect a 4:3 screen TV. This setting displays the wide picture on the entire screen and cuts off the portions that do not fit.

COLOR SYSTEM (VIDEO CD)

(Except for European and Russian models)
Select the output video signal when you play back a VIDEO CD.
AUTO: Output the video signal according to the color system of the disc, either PAL or NTSC.
PAL: Change the video signal of an NTSC disc and output it in PAL system.
NTSC: Change the video signal of a PAL disc and output it in NTSC system.

SCREEN SAVER

The screen saver will help prevent your display device from becoming damaged (ghosting). Press any button (e.g., ▷ 7) to cancel the screen saver.
ON: The screen saver image appears when playback is stopped or paused for 15 minutes or when you play back an AUDIO CD or MP3 audio tracks for more than 15 minutes.
OFF: The screen saver does not appear.

Continued ⇨

BACKGROUND

Selects the background color or picture to be displayed on the TV screen. The background color or picture is displayed when playback is stopped or while playing an AUDIO CD and MP3 audio tracks.

JACKET PICTURE: The jacket picture (still picture) appears in the background, but only when the jacket picture is already recorded on the disc (DVD VIDEO, CD-Extra, etc.). If the disc does not contain a jacket picture, the "GRAPHICS" picture appears.

GRAPHICS: A preset picture stored in the system appears in the background.

BLUE: The background color is blue.

BLACK: The background color is black.

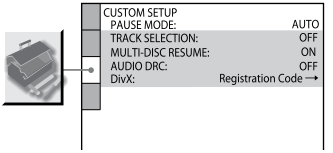
[1] The default setting varies depending on the country or region.

[2] Depending on the DVD VIDEO, "4:3 LETTER BOX" may be selected automatically instead of "4:3 PAN SCAN" or vice versa.

Setting playback options — "CUSTOM SETUP"

Set up playback related and other settings.

The default setting is underlined.



PAUSE MODE

(DVD VIDEO and DVD-R/-RW in VR mode only)

AUTO: The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.

FRAME: The picture, including subjects that do not move dynamically, is output in high resolution.

TRACK SELECTION

(DVD VIDEO only)

Gives priority to the sound track which contains the highest number of channels when you play back a DVD VIDEO on which multiple audio (PCM, DTS, MPEG audio, or Dolby Digital) formats[1] are recorded.

OFF: No priority given.

AUTO[2]: Priority given.

MULTI-DISC RESUME
(DVD VIDEO and VIDEO CD only)
ON: Stores the resume playback point in the memory for up to 40 discs.
OFF: Does not store the resume playback point in the memory. Playback starts at the resume playback point only for the current disc in the system.

AUDIO DRC[3] (Dynamic Range Compression)
(DVD VIDEO and DVD-R/-RW in VR mode only)
OFF: No compression of dynamic range.
STANDARD: Reproduces the sound track with the kind of dynamic range that the recording engineer intended. Useful for watching movies at low volume late at night.
MAX: Narrows the dynamic range fully.

DivX
Displays the registration code for this system.
For more information, go to http://www.divx.com on the Internet.

[1] If each audio sound track has the same number of channels, the system selects the audio sound tracks in the order from PCM, DTS, Dolby Digital, to MPEG.

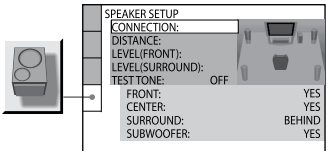
[2] When you set "TRACK SELECTION" to "AUTO," the language may change. The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 64). However, depending on the disc, this function may not be performed.

[3] "AUDIO DRC" can only be performed with Dolby Digital sources.

Continued

Setting the speakers[1] — "SPEAKER SETUP"

To obtain the best possible surround sound, set the connection of the speakers and their distance from your listening position. Then, use the test tone to adjust the level of the speakers to the same level.



CONNECTION

FRONT: YES

CENTER (DHC-AZ55D only):

YES: Normally select this.

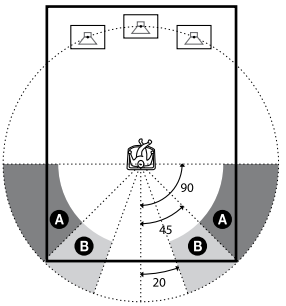
NONE: Select this if the center speaker is not connected.

SURROUND (DHC-AZ55D only):

BEHIND: Select this if the surround speakers are located in section B.

SIDE: Select this if the surround speakers are located in section A.

NONE: Select this if the surround speakers are not connected.



Position diagram

SUBWOOFER[2]:

YES: Select this if you have connected the subwoofer.

NONE: Select this if the subwoofer is not connected.

DISTANCE (DHC-AZ55D only)[3]

FRONT 3.0 m[4]: Front speaker distance from the listening position can be set.

CENTER 3.0 m[5]: Center speaker distance from the listening position can be set.

SURROUND 3.0 m[4][5]: Surround speaker distance from the listening position can be set.

LEVEL (FRONT)[6]

For DHC-AZ55D, be sure to set "TEST TONE" to "ON" for easy adjustment.

L 0.0 dB

R 0.0 dB

CENTER 0.0 dB (DHC-AZ55D only):

SUBWOOFER 0.0 dB: Depending on the subwoofer, the sound output may be smaller compared to other speakers when you adjust this level during the test tone.

LEVEL (SURROUND) (DHC-AZ55D only)[7]

You can adjust the level of each surround speakers as follows. Be sure to set "TEST TONE" to "ON" for easy adjustment.

L 0.0 dB
R 0.0 dB

TEST TONE (DHC-AZ55D only)[8]

OFF: The test tone is not emitted from the speakers.
ON: The test tone is emitted from each speaker in sequence.
The test tone is emitted from the selected speakers when you select "LEVEL (FRONT)" or "LEVEL (SURROUND)".

1 Press ↑/↓/←/→ 31 repeatedly to select the desired speaker or the level.

2 Press ENTER 31.

3 Repeat step 1 and 2. Press ↑/↓/←/→ 31 repeatedly to set "TEST TONE" to "OFF" when you have finished adjusting the speaker level.

[1] To return to the default setting when changing a setting, press CLEAR 33 before you press ENTER 31. However, note that you cannot return the setting of "CONNECTION" to default setting. Note that you cannot perform "SPEAKER SETUP" when you connect headphones or microphones to the unit.

[2] Depending on the settings of other speakers, the subwoofer may output excessive sound.

[3] The items that are set to "NONE" in "CONNECTION" cannot be selected. When you perform "QUICK" setup (page 30), the default settings are changed.

[4] If each left and right speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.

[5] The setting range changes depending on the front speaker setting.

[6] The items that are set to "NONE" in "CONNECTION" cannot be selected.

[7] This setting cannot be selected when "SURROUND" is set to "NONE" in the "CONNECTION" setting.

[8] When you adjust the speaker settings, the sound may cut off for a moment.

Tuner

Listening to the radio

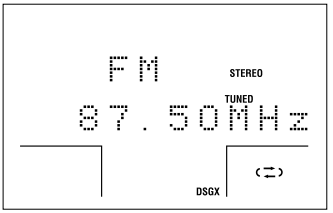
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to a preset radio station

1 Press FUNCTION +/— 19 repeatedly to select "TUNER FM" or "TUNER AM" (or touch TUNER/BAND 6 on the unit repeatedly to select "FM" or "AM").

2 Press and hold TUNING +/— 27 until "AUTO" lights up and then release.

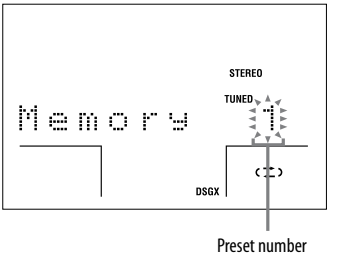
Scanning stops automatically when a station is tuned in and "TUNED" lights up in the display. When a FM stereo program is tuned in, "STEREO" lights up in the display.



If "TUNED" does not appear and the scanning does not stop, press TUNING +/— 27 repeatedly to tune in the station you want.

3 Press DVD/TUNER MENU 25.
"Memory?" flashes in the display.

4 Press ENTER 31.
A preset number flashes in the display.
The stations are stored from preset number 1.



5 Press ↑ or ↓ 31 repeatedly to select the preset number you want.

6 Press ENTER 31.
"Complete!" appears in the display. The station is stored.

7 Repeat steps 1 to 6 to store other stations.
You can preset up to 20 FM stations and 10 AM stations.
The preset stations are retained for a day even if you unplug the power cord or if a power failure occurs.

8 To listen to a preset station, press PRESET +/— 7 repeatedly to select the preset station you want.
You can also press the numeric buttons 34, then press ENTER 31 to select a preset station.

To stop automatic scanning
Press ■ 7.

To cancel presetting
Press DVD/TUNER MENU 25.

Tip
You can set a frequency directory with the numeric buttons by pressing D. TUNING button 23.

Listening to a non-preset radio station/station with a weak signal

1 Press FUNCTION +/— 19 repeatedly to select "TUNER FM" or "TUNER AM" (or touch TUNER/BAND 6 on the unit repeatedly to select "FM" or "AM").

2 Press TUNING +/— 27 repeatedly to tune in the station you want.

To change the AM tuning interval
The AM tuning interval is factory-preset to 9 kHz or 10 kHz (for some areas: this function is not available on the European, Russian and Saudi Arabian models).

1 Press FUNCTION +/— 19 repeatedly to select "TUNER AM" (or touch TUNER/BAND 6 repeatedly to select "AM").

2 Press I/⏻ 1 to turn off the system.

3 Press DISPLAY 18 repeatedly until "SONY DEMO" appears in the display.

4 Press I/⏻ 1 on the unit while touching I◄◄ 7 on the unit.
"AM 9k Step" or "AM 10k Step" appears in the display.
When you change the interval, all the AM preset stations are erased.

Continued

Tips

- To improve broadcast reception, adjust the supplied antennas, or connect an external antenna.
- When an FM stereo program has static noise, press REPEAT/FM MODE 21 repeatedly until “MONO” lights up in the display. There will be no stereo effect, but the reception will improve.

Playing a tape

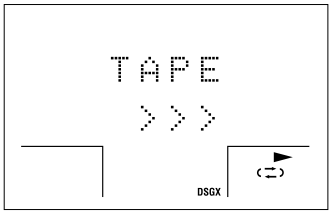
You can use TYPE I (normal) tape.

1 Press FUNCTION +/— 19 repeatedly (or touch TAPE 6 on the unit) to select "TAPE."

2 Insert a tape.
Press ⏏ PUSH OPEN/CLOSE 9 on the unit to insert a tape into the cassette holder with the side you want to play back facing forward. Make sure there is no slack in the tape to avoid damaging the tape or the cassette holder.

3 Press DIRECTION 15 on the unit repeatedly to select "⇄" to play one side. Select "↻" or "⟲↻"* to play both sides.

4 Press ▷ (or touch ◀▶ on the unit) 7 on the unit.
The tape starts playing.
To play the reverse side, press the button again.



* The tape deck stops automatically after repeating the sequence five times.

Other operations

To	Do this
Stop playback	Press ■ 7.
Pause playback	Press ❚❚ 7. Press ❚❚ 7 again to resume playback.
Fast-forward or rewind	Press ◀◀ or ▶▶ 27.

Tip

When a tape is inserted, corresponding forward (►)/reverse (◄) indicator lights up.

Recording onto a tape

There are three ways to record on a TYPE I (normal) tape. Use the buttons on the unit for the operation.

CD Synchro Recording
You can record an entire VIDEO CD or AUDIO CD onto a tape. The recording level is adjusted automatically.

Manual Recording
You can record just the portion you want from a sound source, including connected audio components.

Sound Mixing
You can "mix" sound from any one of the sound sources and singing or speaking into a microphone (not supplied). The mixed sound can be recorded onto a tape.

1 Load a recordable tape into the tape deck, then touch TAPE [6] to select "TAPE."

2 Press DIRECTION [15] repeatedly to select "⇄" to record on one side. Select "↻⇄" or "⇄↻" to record on both sides.

3 Touch ◄► [7] repeatedly to select recording side, then touch ■ [7].
If you select both sides recording or front side recording, touch ◄► [7] repeatedly to light up the ► indicator, then touch ■ [7]. If you record on the reverse side, touch ◄► [7] repeatedly to light up the ◄ indicator, then touch ■ [7].

4 Prepare the recording source.

For CD Synchro Recording:
Touch DVD [6] and insert the disc you want to record. When the system automatically starts playback, touch ■ [7] twice to cancel resume play.

For Manual Recording and Sound Mixing:
Select the desired source to record or mix.
To record only sound from a microphone, touch DVD [6], and do not start playing any other source in step 6.

5 Set the tape deck to stand by for recording.

For CD Synchro Recording:
Press CD SYNC 15.
If the play mode is set to Shuffle Play, Program Play or Repeat Play, it automatically switches to Normal Play.

For Manual Recording and Sound Mixing:
Press ● START 15.

6 Start recording.

For CD Synchro Recording:
Press ● START 15. When the recording is completed, the CD player and the tape deck stop automatically.

For Manual Recording:
Press ● START 15, and then start playing the desired recording source. If there is noise while recording from the tuner, reposition the appropriate antenna to reduce the noise.

For Sound Mixing:
Press ● START 15, and then start playing the desired source and start singing or speaking into the microphone.
If acoustic feedback (howling) occurs, reduce the volume, move the microphone away from the speakers, or change the direction of the microphone.

To stop recording

Touch ■ 7.

Notes

- CD Synchro Recording is not available with DVDs, DATA CDs and DATA DVDs.
- You cannot listen to other sources while recording.
- When you press CD SYNC 15 in step 5, the surround effect may automatically change.
- When you record from a VIDEO CD, playback with PBC functions is automatically canceled.
- If you connect or disconnect a microphone or headphones during recording, the sound may cut off for a moment.
- When DVD is selected, Karaoke Mode is automatically turned on when you connect an optional microphone to MIC jack 12.
- If there is noise while recording from the tuner, reposition the appropriate antenna to reduce the noise. While recording, you cannot listen to other sources.
- If a disc is loaded when the functions other than DVD are selected, recording automatically stops.
- CD SYNC 15 only works in "DVD" function.
- Do not eject the tape during recording, as this may cause irreparable damage to the tape and the tape deck.

Continued

Tips

- If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- When high level sound signals are input, the system automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control function).

USB Device

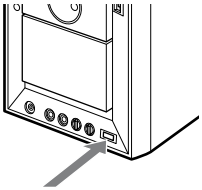
Listening to music of an USB device

You can connect an optional USB device (Digital music player or USB storage media) to the ⇜ (USB) port 11 on the unit and listen to music stored in the USB device. See "Playable USB devices" (page 135) for a list of USB devices that can be connected to this system.
The audio format that can be played back by this system is MP3* only.

* Files with copyright protection (Digital Rights Management) cannot be played by this system.

1 Press FUNCTION +/— 19 repeatedly to select "USB" (or touch USB 6 on the unit).

2 Connect an optional USB device (Digital music player or USB storage media) to the ⇜ (USB) port 11 as shown below.



USB device (Digital music player or USB storage media)

When USB cable connection is necessary, connect the USB cable supplied with the USB device to be connected.
See the operation manual supplied with the USB device to be connected for details on the operation method.
When the USB device is connected, "Reading" appears and "USB MEMORY" lights up.

Notes

- When inserting the USB device, make sure of the direction and insert it all the way to the ⇜ (USB) port 11 on the unit.
- Do not forcibly insert the USB device, as this may cause the device to be damaged.
- Do not insert other device or objects besides the USB device.
- It may take about 10 seconds before "Reading" appears depending on the type of USB device connected.

To remove the USB device

1 Press ■ 7 to stop playback.

2 Press I/⏻ 1 to turn off the system.

3 Remove the USB device.

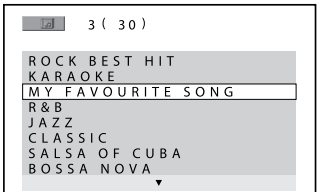
Continued

Notes on the USB device

- The system can play back up to 200 albums, including albums that do not contain MP3 audio tracks and JPEG image files.
- The system can play back MP3 audio tracks and JPEG image files. The system will play back any data with the extension ".MP3", ".JPG" or ".JPEG" even if they are not in MP3 or JPEG format. Playing this data may generate a loud noise which could damage your speaker system.
- The following USB devices/situations can increase the time it takes to start playback:
  - an USB device recorded with a complicated tree structure.
  - when the tracks or files in another album have just been played back.
- Some USB devices cannot be played back on the system depending on the file format.
- The system can play back to a depth of 8 folders only.
- When the USB device is inserted, the system reads all the files on the USB device. If there are many folders or files on the USB device, it may take a long time to finish reading the USB device.
- Do not connect the system and the USB device through an USB hub.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this system.
- If the system is turned off during Resume Play mode, when the system is turned on again playback starts from the beginning of the MP3 audio track that was in Resume Play mode.
- This system does not necessarily support all the functions provided in a connected USB device.
- Files recorded by a device such as a computer may not be played back in the order in which they were recorded.
- The playback order for the system may differ from the playback order of the connected USB device.
- Always turn off the system before removing the USB device. Removing the USB device while the system is on may corrupt the data on the USB device.
- Do not save other types of files or unnecessary folders on an USB device that has MP3 audio tracks or JPEG image files.
- Folders that have no MP3 audio tracks or JPEG image files are skipped.
- Compatibility with all MP3 encoding/writing softwares, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.

Selecting an MP3 audio track or album

1 Insert an USB device to the ⇜ (USB) port 11.
The album list appears on the TV screen.

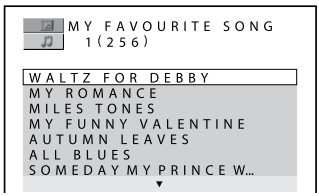


2 Press ↑ or ↓ 31 repeatedly to select an album.

Playing an album:
Press ▷ (or touch ◀▶ on the unit) 7.
The system starts playback from the first track of the selected album.
To stop playback, press ■ 7.

Playing a track:

1 Press ENTER 31.
The list of MP3 audio tracks of the selected album appears.



2 Press ↑ or ↓ 31 repeatedly to select the MP3 audio track you want, then press ENTER 31.
The system starts playing the selected MP3 audio track.
To stop playback, press ■ 7.

To display the next or previous page of track list or album list

Press ← or → 31 repeatedly when the track list or album list is displayed.

Continued ⇨

To play back the next album of MP3 audio tracks

You can select the next album by pressing ⏭ 7 repeatedly until the last track of the current album, then press ⏭ 7 once. The first track of the next album is selected. However, you cannot select the previous album by pressing ⏮ 7 repeatedly. To select the previous album, select the album from the album list.

To return to the album list when the track list is displayed

Press ↩ RETURN 30.

To turn on or off the album list or track list

Press DVD/TUNER MENU 25 repeatedly.

Selecting a JPEG image file or album

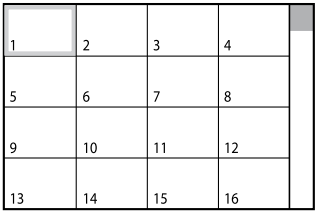
1 Insert an USB device to the ⇿ (USB) port 11.
The album list appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select an album.

Playing an album:
Press ▷ (or touch ◀▶ on the unit) 7.
The system starts a slide show from the first image file of the selected album.

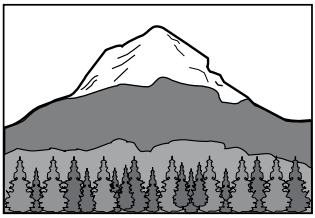
Playing an image file:

1 Press PICTURE NAVI 20.
Thumbnail picture for the first 16 JPEG image files in the selected album is displayed.



If there are more than 16 image files in the selected album, the scroll bar appears at the right.

2 Press ↑/↓/←/→ 31 to select the image you want to view, then press ▷ (or touch ◀▶ on the unit) 7.
The slide show starts from the selected image file.
To stop playback, press ■ 7.



To display the next or previous page of album list

Press ← or → 31 repeatedly when the album list is displayed.

To display the next or previous JPEG image file

Press ← or → 31 repeatedly during the slide show.

To play back the next album of JPEG image files

You can select the next album by pressing → 31 repeatedly until the last file of the current album, then press → 31 once. The first file of the next album is selected. However, you cannot select the previous album by pressing ← 31 repeatedly. To select the previous album, select the album from the album list.

To turn on or off the album list

Press DVD/TUNER MENU 25 repeatedly.

To rotate a JPEG image file

When a JPEG image file is displayed on the TV screen, you can rotate the image by 90 degrees.
Press ↑ or ↓ 31 repeatedly while viewing an image.
Press CLEAR 33 to return to the original view.

Notes

- The PICTURE NAVI 20 button does not work when "MODE (MP3, JPEG)" is set to "AUDIO (MP3)."
- When you press ← or → 31 to select the next or previous image, the image will return to its original view even if you have rotated the image previously.
- The slide show stops when you press ↑ or ↓ 31.

Continued

Playing MP3 audio tracks and JPEG image files as a slide show with sound

You can play back a slide show with sound by first placing both JPEG image files and MP3 audio tracks in the same album.

1 Insert an USB device to the ⇔ (USB) port 11.

2 Press ▭ DISPLAY 26.
The Control Menu appears on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select DATA (MODE (MP3, JPEG)), then press ENTER 31.
The options for "MODE (MP3, JPEG)" appear on the TV screen.
The default setting is underlined.
- AUTO: Plays back both JPEG image files and MP3 audio tracks in the same album as a slide show with sound.
- AUDIO (MP3): Plays back MP3 audio tracks continuously.
- IMAGE (JPEG): Plays back JPEG image files as a slide show.

4 Press ↑ or ↓ 31 repeatedly to select "AUTO," then press ENTER 31.

5 Press DVD/TUNER MENU 25.
The album lists appear on the TV screen.

6 Press ↑ or ↓ 31 repeatedly to select the album you want, then press ▷ (or touch ◀▶ on the unit) 7.
The slide show with sound starts from the selected album.
To stop playback, press ■ 7.

To turn on or off the album list

Press DVD/TUNER MENU 25 repeatedly.

To cancel slide show with sound

Select "AUDIO (MP3)" or "IMAGE (JPEG)" in step 4.

Notes

- In some cases, you cannot change the "MODE (MP3, JPEG)" setting when "MODE (MP3, JPEG)" has been set to
  - "IMAGE (JPEG)" and the selected USB device only contains MP3 audio tracks.
  - "AUDIO (MP3)" and the selected USB device only contains JPEG image files.

- The maximum number of MP3 audio tracks or JPEG image files on an album which this system can recognize is:
  - 600 when "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" or "IMAGE (JPEG)."
  - 300 when "MODE (MP3, JPEG)" is set to "AUTO."
- If there are no MP3 audio tracks in the USB device, "No audio data" appears on the TV screen and the USB device cannot be played back.
- If there are no JPEG image files in the USB device, "No image data" appears on the TV screen and the USB device cannot be played back.
- If you play back a large data size of MP3 audio tracks and JPEG image files at the same time, the sound may skip.

Specifying the slide show speed

(JPEG image files only)

1 Press DISPLAY 26 repeatedly until the Control Menu for JPEG image files appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (INTERVAL), then press ENTER 31.
The options for "INTERVAL" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the transition interval you want.
The default setting is underlined.
- NORMAL: Sets the duration to about 6 to 9 seconds (Images that are 3,000,000 pixels or more will lengthen the duration).
- FAST: Sets the duration shorter than "NORMAL."
- SLOW 1: Sets the duration longer than "NORMAL."
- SLOW 2: Sets the duration longer than "SLOW 1."

4 Press ENTER 31.
The selected setting takes effect.

Note

Some JPEG image files (especially progressive JPEG image files or JPEG image files with 3,000,000 pixels or more) may take a longer time to display than others, which may make the transitions seem longer than that of the option you selected.

Continued

Selecting a transition effect for image files in the slide show

(JPEG image files only)

1 Press DISPLAY 26 repeatedly until the Control Menu for JPEG image files appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (EFFECT), then press ENTER 31.
The options for "EFFECT" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.
The default setting is underlined.
- MODE 1: The image sweeps in from top to bottom of the screen.
- MODE 2: The image sweeps in from left to right of the screen.
- MODE 3: The image stretches out from the center of the screen.
- MODE 4: The images randomly cycle through the effects.
- MODE 5: The next image slides over the current image.
- OFF: Turns off this function.

4 Press ENTER 31.
The selected setting takes effect.

Playing in random order

— Shuffle Play

You can play back the tracks on the USB device in random order. Each time you perform Shuffle Play, the playing order may differ.

1 Press DISPLAY 26.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (SHUFFLE), then press ENTER 31.
The options for "SHUFFLE" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.
- ON (MP3): all MP3 audio tracks in the selected album on the USB device is played back randomly. When no album is selected, the first album is played back randomly.

4 Press ENTER 31.

5 Press ▷ (or touch ◄► on the unit) 7.
Shuffle Play starts.
To cancel Shuffle Play, press CLEAR 33 or select "OFF" in step 3.

To turn off the Control Menu

Press DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes

- Shuffle Play is canceled when
  - you remove the USB device.
  - you turn off the system.
  - you change the function.
- The same song may be played back repeatedly for MP3 audio tracks.

Playing repeatedly

— Repeat Play

You can play back all the tracks, files or a single track or file on an USB device repeatedly.
You can select Shuffle Play at the same time.

1 Press DISPLAY 26.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (REPEAT), then press ENTER 31.
The options for "REPEAT" appear on the TV screen.

3 Press ↑ or ↓ 31 repeatedly to select the setting you want.
The default setting is underlined.
- OFF: does not play back repeatedly.
- MEMORY: repeats all the albums on the USB device.
- ALBUM: repeats the current album.
- TRACK*: repeats the current track.

* MP3 audio tracks only.

When Shuffle Play is activated:
- OFF: does not play back repeatedly.
- ON: repeats the Shuffle Play.

Continued

4 Press ENTER 31.

5 Press ▷ (or touch ◄► on the unit) 7.

Repeat Play starts.
To cancel Repeat Play, press CLEAR 33 or select "OFF" in step 3.

To turn off the Control Menu

Press ▭ DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes

- You can also change the Repeat Play setting by pressing REPEAT/FM MODE 21 repeatedly.
- "REP" lights up in the display when Repeat Play is set to "MEMORY," "ALBUM" or "ON."
- "REP1" lights up in the display when Repeat Play is set to "TRACK."
- When playing an USB device which contains MP3 audio tracks and JPEG image files, the audio sound will not match the image if their playing time are different.
- You cannot select "TRACK" when "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" (page 82).
- Repeat Play is canceled when
  - you remove the USB device.
  - you turn off the system.
  - you change the function.

Adjusting the sound

Generating a more dynamic sound (Dynamic Sound Generator X-tra)

You can reinforce the bass and create a more powerful sound.
The "DSGX" setting is ideal for music sources.

Press DSGX 16 on the unit repeatedly.

Each time you press the button, the display changes as follows:
DSGX ON ⟷ DSGX OFF*

* The preset sound effect is automatically set to "FLAT."

Tip
The default setting is "DSGX ON."

Selecting the preset effect

1 Press PRESET EQ 16 on the unit.
The last selected preset effect appears in the display.

2 Press PRESET EQ 16 on the unit repeatedly to select the preset effect you want.

Preset effect options

Effect	Category
ROCK POP JAZZ CLASSIC DANCE	Standard music sources
FLAT	Original music source (cancels the preset effect)
USER EQ	User equalizer setting (see below)

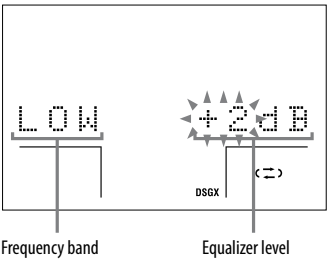
To adjust the graphic equalizer and store the user equalizer setting

You can adjust the sound by raising or lowering the level of specific frequency band, then store the user equalizer setting in the memory.

1 Press EQ EDIT 16 on the unit repeatedly to select a frequency band.

Continued

2 Press ⏮ or ⏭ 7 repeatedly to adjust the level.



3 Repeat steps 1 and 2 to adjust the level of other frequency bands.

4 Press EQ EDIT 16 on the unit repeatedly to exit the setting mode.
Each time you press the button, the display changes as follows:
"LOW" → "MID" → "HIGH" → Original display (Setting mode exited) → "LOW" →
This setting is automatically stored as "USER EQ."
The previous setting stored at this memory location is erased and replaced by the new setting.

Selecting the sound field

You can take advantage of the surround sound simply by selecting one of the sound fields. They bring the exciting and powerful sound of movie theaters into your home.

1 Press SOUND FIELD 16.
The last selected sound field appears in the display.

2 Press SOUND FIELD 16 repeatedly when the last selected sound field appears in the display to select the sound field you want.

DHC-AZ55D:

When the headphones are not connected:

SBS MULTI[1)2)] (Sound Broad System Multi mode)
Performs suitable decoding based on the source to maximize the sound field effect. This mode lets you enjoy audio playback of all types of discs from multiple speakers.

A.F.D. AUTO[2)] (Auto Format Direct Auto)
The number of sound channels depends on the source. During DVD function, when 2 channel sources such as AUDIO CD, VIDEO CD and MP3 audio tracks are played back, only 2 sound channels would be output. However, the number of sound channels output during DVD VIDEO and DivX video files playback would depend on the audio format selection. During other functions, the system would only output 2 sound channels. This setting is ideal when you want to listen to the original sound from the source.

PRO LOGIC[2)]
Performs Pro Logic decoding. The source recorded in 2 channels is decoded into 4.1 channels.

PLII MOVIE[2)]
Performs Pro Logic II Movie mode decoding. This setting is ideal for movies encoded in Dolby Surround. In addition, this mode can reproduce sound in 5.1 channels when watching videos of overdubbed or old movies. The source recorded in 2 channels is decoded into 5.1 channels.

PLII MUSIC[2)]
Performs Pro Logic II Music mode decoding. This setting is ideal for normal stereo sources such as AUDIO CDs. The source recorded in 2 channels is decoded into 5.1 channels.

V.M.DIM.[2)]
Performs DCS (Digital Cinema Sound) decoding. The source recorded in 2 channels is decoded into 5.1 channels.

LINK
Reproduces the surround channels from the front channels.

2CH STEREO
Reproduces stereo output from multi channel sources such as DVD VIDEOs during "DVD" function. The system outputs the original sound during functions other than "DVD" and during playback of stereo sources such as AUDIO CD, VIDEO CD and MP3 audio tracks.

Continued

When the headphones are connected:

HP 2CH
The normal sound field for headphones.

HP VIRTUAL[2)]
The sound field for headphones with virtual surround effect. This sound field is only effective when you play back multi channel sources.

[1)] When playing a DVD, the effect is the same as "A.F.D. AUTO."

[2)] These sound fields cannot be selected when:
- the system is in standby for recording or during recording.
- a microphone is connected.
- the Karaoke Mode is turned on.

DHC-AZ33D:

When the headphones are not connected:

2CH STEREO
Reproduces stereo output from multi channel sources such as DVD VIDEOs during "DVD" function. The system outputs the original sound during functions other than "DVD" and during playback of stereo sources such as AUDIO CD, VIDEO CD and MP3 audio tracks.

2CH SUR
Reproduces stereo output with surround effect from multi channel sources such as DVD VIDEO during "DVD" function. The system outputs the original sound with surround effect during functions other than "DVD."

VIRTUAL A*
Creates 3 sets of virtual surround speakers from the sound of the front speakers. This sound field is only effective when you play back multi channel sources.

VIRTUAL B*
Creates 1 set of virtual surround speakers from the sound of the front speakers without using actual surround speakers. This mode is effective when the distance between the front speakers is short. This sound field is only effective when you play back multi channel sources.

* These sound fields cannot be selected when the Karaoke Mode is turned on.

When the headphones are connected:

HP 2CH
The normal sound field for headphones.

HP SUR
The sound field for headphones with surround effect.

HP VIRTUAL
The sound field for headphones with virtual surround effect. This sound field is only effective when you play back multi channel sources.

Notes

- Depending on the disc, the surround effect may not be as much as expected.
- For DHC-AZ55D, if "NONE" is selected in surround speaker setup, no sound will be output from the surround speakers even if "LINK" is selected.
- For DHC-AZ33D, "VIRTUAL A," "VIRTUAL B" and "HP VIRTUAL" are effective only when a multi channel source is played.
- "VIRTUAL A," "VIRTUAL B" and "HP VIRTUAL" can be selected only when the system function is set to "DVD" or "USB" (DHC-AZ33D only).

Singing along: Karaoke

DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD

You can sing along with any multiplex AUDIO CD, multiplex VIDEO CD or DVD VIDEO in "Dolby Digital Karaoke" format.

Preparing for karaoke

DVD VIDEO, DVD-R/-RW in VR mode, VIDEO CD, MP3 audio tracks (including those on an USB device), and DivX video files only

1 Press FUNCTION +/— 19 repeatedly to select "DVD" (or touch DVD 6 on the unit).

2 Turn MIC LEVEL 12 on the unit to "MIN" to reduce the microphone volume.

Continued

3 Connect an optional microphone to MIC jack 12 on the unit.

The Karaoke Mode is turned on. "KARAOKE MODE: ON" appears on the TV screen and "🎤" appears in the display.

4 Start playing the music and adjust the volume.

DVD VIDEO, DVD-R/-RW in VR mode, DivX video files:
The system outputs the audio format that you have selected.

AUDIO CD, VIDEO CD, MP3 audio tracks:
The audio setting automatically changes to "1/L" and the system outputs the left channel audio.

If you want to hear vocal:
Press AUDIO 22 repeatedly to select another audio channel.

5 Start singing along with the music.

To turn off the Karaoke Mode

Disconnect the microphone or press KARAOKE MODE 35. "KARAOKE MODE: OFF" appears on the TV screen.

Other operations

To	Do this
Adjust the microphone volume	Turn MIC LEVEL 12 on the unit.
Adjust the microphone echo	Turn ECHO LEVEL 12 on the unit.
Cancel the echo effect	Turn ECHO LEVEL 12 on the unit to "MIN."

Notes

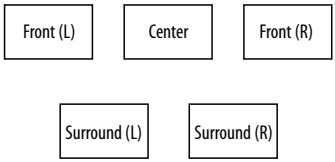
- The sound input from the microphone is not output from the DVD/USB DIGITAL OUT jack (DHC-AZ33D only).
- Karaoke Mode is automatically turned off when you:
  - turn off the system.
  - change the function.
  - connect the headphones.
  - turn on the test tone (DHC-AZ55D only).
- If howling occurs:
  - move the microphone away from the speakers.
  - change the direction of the microphone.
  - lower the MIC LEVEL 12 or ECHO LEVEL 12.
  - press VOLUME − (or touch VOLUME − on the unit) 8 repeatedly.

"Dolby Digital Karaoke" format

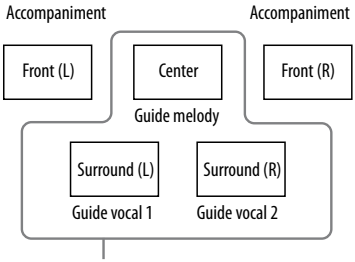
(DVD VIDEO only)

The Dolby Digital format, which reproduces surround sound using 5 channels, can also contain the "Dolby Digital Karaoke" format which is specialized for karaoke. In the "Dolby Digital Karaoke" format discs, guide melody and guide vocal tracks are recorded in addition to the accompaniment. You can select them when Karaoke Mode is turned on.

Speaker output in normal Dolby Digital format (5 channel)



Speaker output in "Dolby Digital Karaoke" format



You can select any of these.

You can check the audio information by pressing AUDIO 22 (page 37). When playing a "Dolby Digital Karaoke" disc, "♪" appears at the current audio format (page 102).

Example:

DOLBY DIGITAL ♪ 3 / 2

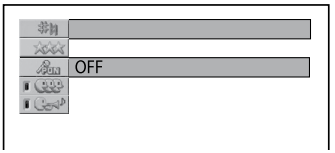
2/0: Recorded only with accompaniment.
3/0: Recorded with guide melody.
3/1: Recorded with guide melody and one guide vocal.
3/2: Recorded with guide melody and two guide vocals.

Continued

Enjoying karaoke using the control menu

1 Press DISPLAY 26 once or twice when Karaoke Mode is turned on while playing a disc.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select the Karaoke item from the displayed list, then press ENTER 31.
The Karaoke item is selected.



3 Press ↑ or ↓ 31 repeatedly to select the setting you want, then press ENTER 31.

Setting Karaoke Mode

The default settings are underlined.

KARAOKE PON[1)]
ON: Enjoy karaoke with any disc, even if it is not a karaoke or multiplex disc by reducing the sound of the vocal.
OFF: Cancel the "KARAOKE PON" effect.

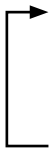
KEY CONTROL[2)]
Adjust the pitch of the music to suit your vocal range.
Select "♮" to cancel the "KEY CONTROL" effect.

VOCAL SELECT[3)]
(DVD VIDEO, VIDEO CD, AUDIO CD only)

When playing a DVD VIDEO[4)]:

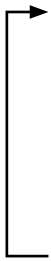
OFF (Turns off the Guide vocal)
↓
1+2 (Guide vocal 1+2)
↓
1 (Guide vocal 1)
↓
2 (Guide vocal 2)

When playing a VIDEO CD or AUDIO CD:



OFF (Turns off the vocal)
↓
L+R (The same sound is output from both speakers)
↓
STEREO (The standard stereo sound)

When playing a Super VCD:



OFF (Turns off the vocal)
↓
1:L+R
↓
1:STEREO (The stereo sound of the audio track 1)
↓
2:L+R
↓
2:STEREO (The stereo sound of the audio track 2)

GUIDE MELODY[5]

(DVD VIDEO only)
ON: Turn on the guide melody.
OFF: Turn off the guide melody.

SCORE MODE[6]

When Karaoke Mode is turned on, you can select this.
Your score is calculated by comparing your voice with the music source.
EASY: Beginner or intermediate level.
NORMAL: Advance or professional level.
DEMO: Demonstration mode. Consistently displays a high score for every song.

1 Press SCORE 35 before singing a song in Karaoke Mode.
The previous highest score appears on the TV screen.

2 After singing for more than a minute, press SCORE 35 again to view your score.
Your score is calculated from a scale of 0 to 99.

[1] The singer's voice may not be reduced when:
- only a few instruments are playing.
- a duet is being played back.
- the source has strong echoes or chorus.
- the singer's voice deviates from the center.
- the voice on the source is singing in high soprano or tenor.

You can also change the "KARAOKE PON" setting by pressing KARAOKE PON 35 when the Karaoke Mode is turned on. The "KARAOKE PON" setting is automatically changed to "OFF" when you set "VOCAL SELECT" to other than "OFF."

Continued

[2] You can also change the “KEY CONTROL” setting by pressing KEY CONTROL ♭ 35 to reduce the key and KEY CONTROL ♯ 35 to increase the key when the Karaoke Mode is turned on.
The “KEY CONTROL” setting is automatically changed to default setting when you change the track or title.
Depending on the disc, you may not be able to do the above operation.

[3] The “VOCAL SELECT” setting is automatically changed to “OFF” when you set “KARAOKE PON” to “ON.”
Depending on the disc, you may not be able to change the vocal.

[4] For DVD VIDEOs with one or no guide vocal recorded, you cannot change the vocal. You can change the vocal when the audio sound track is recorded in “Dolby Digital Karaoke” format.

[5] When playing a DVD VIDEO, the function only works for “Dolby Digital Karaoke” format.
For DVD VIDEOs without guide melody, you cannot hear the guide melody even if you set the setting to “ON.”

[6] The highest score is reset when the system is turned off.
If you press other buttons on the remote, the score calculating function may be canceled.
In some cases, you may not be able to use the scoring mode.

Note

Each Karaoke setting in the table above is automatically changed to “OFF” or to the default setting when you:

- turn off the system.
- change the function.
- connect the headphones.
- turn off the Karaoke Mode.
- eject the disc.

Using the timer

Falling asleep to music

— Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music.

Press SLEEP 37 repeatedly to select the time you want.

Setting the timer

– Play Timer/Rec Timer

You cannot activate both the Play Timer and the Rec Timer at the same time. Make sure you have set the clock (see "Setting the clock" (page 29)).

Play Timer
You can wake up to music at a preset time.

Rec Timer
You can record from a preset radio station at a specified time.

1 Prepare the sound source.

For Play Timer:
Insert a disc or load a tape with the side you want to play back facing forward or tune in the preset station you want. Then press VOLUME +/— (or touch VOLUME +/— on the unit) 8 to adjust the volume.

For Rec Timer:
Tune in the preset radio station you want.

2 Press TIMER MENU 38.

3 Press ↑ or ↓ 31 repeatedly to select "PLAY SET?" or "REC SET?," then press ENTER 31.
"ON" appears and the hour indication flashes in the display.

4 Set the time to start playback or recording.
Press ↑ or ↓ 31 repeatedly to set the hour, then press ENTER 31.
The minute indication flashes in the display. Use the procedure above to set the minute. "OFF" appears and the hour indication flashes in the display.

Continued

5 Set the time to stop playback or recording using the same procedure as step 4.

6 Select the sound source or prepare the tape.

For Play Timer:
Press ↑ or ↓ 31 repeatedly until the music source (DVD, tape or tuner) you want appears in the display, then press ENTER 31. The display will show the timer settings.

For Rec Timer:
Load a recordable tape into the tape deck. Press DIRECTION 15 on the unit repeatedly to select "⇄" to record on one side or select "⇄" or "⇄" to record on both sides.
When recording from the reverse side, press ▷ (or touch ◀▶ on the unit) repeatedly until the ◀ indicator lights up to start playback of the reverse side. Press ■ 7 at the point where you want to start recording.
When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of reverse side.

Other operations

To	Do this
Check the setting	**1** Press TIMER MENU 38. "TIMER SEL?" flashes in the display. **2** Press ENTER 31. **3** Press ↑ or ↓ 31 repeatedly to select "PLAY SELECT?" or "REC SELECT?," then press ENTER 31.
Change the setting	Start from step 1.
Cancel the Play Timer	**1** Press TIMER MENU 38. "TIMER SEL?" flashes in the display. **2** Press ENTER 31. **3** Press ↑ or ↓ 31 repeatedly to select "TIMER OFF?," then press ENTER 31.

Notes

- If you use the Play Timer or Rec Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- The Play Timer and Rec Timer will not be activated if the system is turned on or if "STANDBY" flashes in the display.
- The volume is reduced to minimum during Rec Timer.
- The system turns on 30 seconds before the preset time. Do not operate the system from the time the system turns on until the recording starts.

Changing the display

Turning off the display

– Power Saving Mode

The demonstration display and the clock display can be turned off to minimize the amount of power consumed during standby mode (Power Saving Mode).

Press DISPLAY 18 repeatedly while the system is turned off.

Demonstration[1] ⟶
No display (Power Saving Mode) ⟶
Clock[2] ⟶ Demonstration ⟶ …

[1] The display changes and the indicators flash even when the system is turned off.

[2] The clock display automatically turns to Power Saving Mode after eight seconds. When DISPLAY 18 is pressed once during no display, the clock is displayed. When pressed during clock display, the demonstration display appears.

Note

You cannot perform the following operations during Power Saving Mode:

- Setting the clock (page 29).
- Changing the AM tuning interval (Except for European, Russian and Saudi Arabian models) (page 71).
- Changing the color system (Except for European and Russian models) (page 24).

Viewing information about the disc

Viewing information about the disc in the front panel display

Press DISPLAY 18.

Each time you press DISPLAY 18, the display changes from ① ⟶ ② ⟶ ③ ⟶ ① ⟶ …

① Disc information
② Clock display (for 8 seconds)
③ Effect name (for 8 seconds)

Checking the elapsed playing time, remaining time and titles

Press TIME/TEXT 36 during playback.

Each time you press TIME/TEXT 36, the display changes from ① ⟶ ② ⟶ … ⟶ ① ⟶ …

When playing a DVD VIDEO or DVD-R/-RW in VR mode:

- When the menu or the title without a chapter is played back
  ① Elapsed playing time of the menu or the current title
  ② Title of the disc[1]

Continued

- When a chapter other than above condition is played back
  ① Elapsed playing time of the current title
  ② Remaining time of the current title
  ③ Elapsed playing time of the current chapter
  ④ Remaining time of the current chapter
  ⑤ Title of the disc[1)2)]

When playing an AUDIO CD or VIDEO CD without PBC function:
① Elapsed playing time of the current track
② Remaining time of the current track
③ Elapsed playing time of the disc[3)]
④ Remaining time of the disc[3)]
⑤ Title of the disc[1)4)]

When playing a VIDEO CD with PBC function:
① Elapsed playing time of the current scene
② Title of the disc[1)4)]

When playing MP3 audio tracks or DivX video files on a DATA CD/DVD:
① Elapsed playing time of the current track/file
② Title of the track/file[5)]

Checking the total playing time and titles

Press TIME/TEXT 36 repeatedly when playback is stopped.
Each time you press TIME/TEXT 36, the display changes from ① → ② → ① → …

DVD VIDEO or DVD-R/-RW in VR mode:
① Total number of titles on the disc
② Title of the disc[1)]

VIDEO CD without PBC playback or AUDIO CD:
① Total number of the tracks on the disc and the total playing time of the disc
② Title of the disc[1)]

VIDEO CD with PBC playback:
① Total number of scenes on the disc
② Title of the disc[1)4)]

1) "NO TEXT" appears in the display if the DVD VIDEO is not a DVD-TEXT disc, the AUDIO CD is not a CD-TEXT disc or the VIDEO CD does not have text information.

2) The current chapter number and the current title number are displayed for 2 seconds before the display returns to the elapsed playing time.

[3] When Program Play or Shuffle Play is turned on, the elapsed playing time and the remaining time of the disc would be skipped.

[4] The current track number and the current index number (for a disc without PBC) or the current scene number (for a disc with PBC) are displayed for 2 seconds before the display returns to the elapsed playing time.

[5] When playing DivX video files, the current album number and the current file number are displayed for 2 seconds before the display returns to elapsed playing time when you press TIME/TEXT 36 during display of title of the file.

Notes

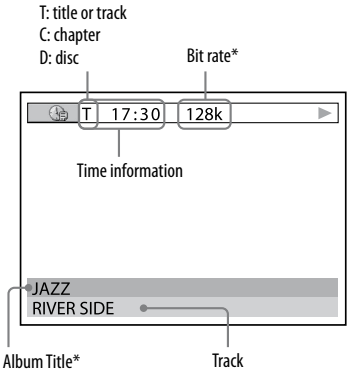
- If you play back a disc containing JPEG image files only, "JPEG" or "NO AUDIO" appears in the display.
- You cannot use TIME/TEXT 36 to change the display of disc information when:
  - a JPEG image file is played back.
  - playback is stopped for DATA CD/DVD with MP3 audio tracks and/or JPEG image files.
  - playback is stopped for DATA CD/DVD with DivX video files.
- If the MP3 audio track title contains characters which cannot be displayed, these characters will be displayed as "*".
- The elapsed playing time of MP3 audio tracks and DivX video files may not be displayed correctly.

Viewing information about the disc in the on-screen display

Press TIME/TEXT 36.

Each time you press TIME/TEXT 36 while playing the disc, the display changes from ① → ② → … → ① → …

The time display that you can view on the TV screen depends on the disc you are playing.



* Only for MP3 audio tracks.

Note

The Control Menu display will show different items depending on the disc type.

Continued

When playing a DVD VIDEO or DVD-R/-RW in VR mode:
① Elapsed playing time of the current title
② Remaining time of the current title
③ Elapsed playing time of the current chapter
④ Remaining time of the current chapter
⑤ Title of the disc

When playing a VIDEO CD with PBC function:
① Elapsed playing time of the current scene
② Title of the disc

When playing an AUDIO CD or VIDEO CD without PBC function:
① Elapsed playing time of the current track
② Remaining time of the current track
③ Elapsed playing time of the disc
④ Remaining time of the disc
⑤ Title of the disc

When playing a DATA CD/DVD:
Elapsed playing time of the current track/file

Notes

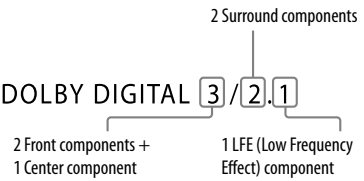
- Only alphabet letters, numbers and some symbols can be displayed.
- Depending on the disc, the system can only display a limited number of characters.
- For MP3 audio tracks with format other than ISO 9660 Level 1 and Level 2, album title and track title may not be displayed.

Displaying the audio information of the disc

(DVD VIDEO and DivX video files only)
When you press AUDIO [22] repeatedly during playback, the format of the current audio signal is displayed on the TV screen.

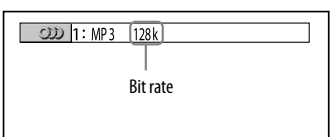
When playing a DVD VIDEO:
For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD VIDEO.

Example:
For Dolby Digital 5.1 channel:



When playing a DivX video file:

Example:
MP3 audio track

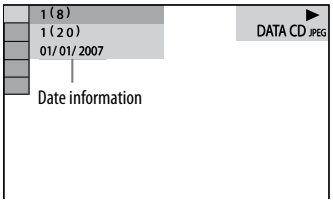


Checking the date information of JPEG image files

You can check the date information during playback when "Exif"* tag is recorded in the JPEG image files.

Press DISPLAY 26 repeatedly during playback.

The Control Menu appears.



* "Exchangeable Image File Format" is a digital camera image format defined by the "Japan Electronics & Information Technology Industries Association" (JEITA).

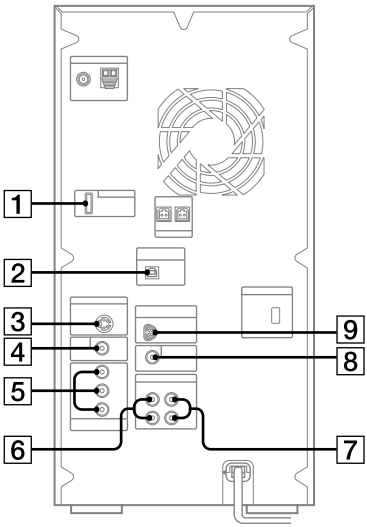
Note

The date information format varies depending on the area.

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.
DHC-AZ33D is used for illustration purposes.

Rear panel



Continued

1 DMPORT (DIGITAL MEDIA PORT)

Connect the DIGITAL MEDIA PORT adaptor (not supplied). You need to connect the DIGITAL MEDIA PORT adaptor to an optional audio device (portable audio player, etc.).

Notes

- Available DIGITAL MEDIA PORT adaptors vary in each area.
- Do not connect an adaptor other than the DIGITAL MEDIA PORT adaptor.
- Do not connect or disconnect the DIGITAL MEDIA PORT adaptor to/from the DMPORT while the system is on.
- When using a DIGITAL MEDIA PORT adaptor (not supplied) that has video output function, connect the adaptor directly to the TV.

2 DVD/USB DIGITAL OUT jack (DHC-AZ33D only)

Connect the digital optical input jack of an optional digital component (such as amplifier). You can enjoy 5.1 channel sound, if the connected amplifier equipped with Dolby Digital or DTS decoder.

Notes

- Sound is output only when the system function is set to "DVD" or "USB."
- If you press AUDIO 22, SOUND FIELD 16 or the buttons related to Karaoke Mode, or if you connect or disconnect microphones or headphones, the sound cuts off for a moment.

3 S VIDEO OUT jack

Connect the S Video input jack of the TV. You can enjoy higher quality video images when you select the S VIDEO.

4 VIDEO OUT jack

Connect the video input jack of the TV or projector.

5 COMPONENT VIDEO OUT jacks

Connect the component video input jacks of the TV or projector. If your TV accept progressive format signals, you must use this connection and press PROGRESSIVE 17 on the unit repeatedly to select "P AUTO" or "P VIDEO." You can enjoy higher quality video images.

6 VIDEO/SAT OUT L/R jacks

Connect the audio input jacks of an optional component (such as VCR or MD deck).

7 VIDEO/SAT IN L/R jacks

Connect the audio output jacks of an optional component (such as VCR or satellite tuner).

8 SUBWOOFER OUT jack

Connect the audio input jack of an optional subwoofer*.

* SA-GNV111D is recommended. In some areas, the SA-GNV111D may not yet be available.

Note

The effect may be limited or noise may occur depending on the connected subwoofer or the type of music being played back.

9 D-LIGHT SYNC OUT jack (Except for European, Australian and Korean models)

Connect the D-LIGHT SYNC controller (not supplied). You need to connect the D-LIGHT SYNC controller to the lighting device* (not supplied). The lighting device will react according to control signals transmitted by the D-LIGHT SYNC controller upon receiving music source from the system. For details on the use of D-LIGHT SYNC controller and lighting device, refer to the respective operating instructions supplied with the respective device.

* Refer to the D-LIGHT SYNC controller operating instruction for the recommended lighting device.

Note

The lighting effect may be different depending on the connected lighting device or the type of music being played back.

Continued

Listening to a connected VCR or satellite tuner

1 Press FUNCTION +/— 19 repeatedly (or touch VIDEO/SAT 6 on the unit) to select "VIDEO" or "SAT."

2 Start playing the connected component.

To switch between the "VIDEO" and "SAT" function

Keep touching VIDEO/SAT 6 on the unit and press I/⏻ 1 on the unit while the system is on. The system switches the function from "VIDEO" to "SAT" or vice versa.

Note

If the sound is distorted or too loud when "VIDEO" is selected, change the function to "SAT."

Recording the audio and video signals from a VIDEO CD onto a video tape

1 Connect optional audio cords from the VIDEO/SAT OUT L/R jacks and the supplied video cord from the VIDEO OUT jack to the audio and video input jacks of your VCR.

2 Start recording.

Refer to the operating instructions provided with connected component.

Note

If you press AUDIO 22, SOUND FIELD 16 or the buttons related to Karaoke Mode, or if you connect or disconnect microphones or headphones, the sound cuts off for a moment.

Using the DIGITAL MEDIA PORT adaptor

1 Press FUNCTION +/— 19 repeatedly (or touch DMPORT 6 on the unit) to select "DMPORT."

2 Start playing the connected component.

The sound from the connected component is played on the system. For operation details, see the operating instructions of the DIGITAL MEDIA PORT adaptor (not supplied).

Note

Depending on the type of DIGITAL MEDIA PORT adaptor (not supplied), you may be able to operate the connected component using either the buttons on the remote or the unit.

Enjoying the multi channel sound with the optional amplifier (DHC-AZ33D only)

1 Connect the digital optical cord.

See "Hooking up optional components" (page 103).

2 Connect the speakers to an optional amplifier equipped with a decoder.

For the speakers placement, refer to the operating instructions supplied with the connected amplifier.

3 Start playing a multi channel source, such as a DVD VIDEO.

4 Select the audio format you want.

See "Changing the sound" (page 37).

Additional Information

Troubleshooting

Should you encounter a problem with your system, do the following:

1 Make sure the power cord and speaker cords are connected correctly and firmly.

2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer.

If the STANDBY indicator flashes

Immediately unplug the power cord, and check the following items.

- Are you using only the supplied speakers?
- Are the + and — speaker cords short-circuited? (DHC-AZ55D only)
- Is anything blocking the ventilation holes on the rear of the system?

After the STANDBY indicator [2] stops flashing, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

General

The display starts flashing as soon as you plug in the power cord even though you have not turned on the system.

- Press DISPLAY [18] once while the system is off. The demonstration disappears.

"– –:– –" appears in the display.

- A power failure has occurred. Set the clock (page 29) and timer settings (page 97) again.

The touch sensors on the front panel do not function.

- Unplug and reconnect the power cord.

The system does not turn on.

- Is the power cord plugged in?
- Is the voltage selector set correctly to match the local power line voltage?

The clock or timer setting is canceled.

- The power cord is disconnected or a power failure occurred. Redo "Setting the clock" (page 29). If you have set the timer, redo "Using the timer" (page 97).

There is no sound.

- Press VOLUME + (or touch VOLUME + on the unit) 8 repeatedly.
- The headphones are connected to the PHONES jack 13.
- Check the speaker connections (page 21).
- There is no audio output during Rec Timer.
- The system is in pause mode, in Slow-motion Play or in Lock Search. Press ▷ (or touch ◀▶ on the unit) 7 to start the playback.

There is no microphone sound.

- Press VOLUME + (or touch VOLUME + on the unit) 8 repeatedly or turn MIC LEVEL 12 on the unit clockwise to adjust the microphone volume.
- Make sure the microphone is connected to the MIC jack 12 correctly.
- Make sure the microphone is turned on.

There is severe hum or noise.

- A TV or VCR is placed too close to the unit. Move the unit away from the TV or VCR.
- Move the unit away from the source of noise.
- Connect the unit to a different wall outlet.
- Install a noise filter (commercially available) to the power cord.

The timer does not function.

- Check the timer setting and set the correct time (page 97).
- Cancel the Sleep Timer function.

The remote does not function.

- Remove the obstacles between the remote and the unit.
- Move the remote closer to the unit.
- Point the remote at the unit's sensor.
- Replace the batteries (R6/size AA).
- Locate the unit away from the fluorescent light.

There is acoustic feedback.

- Reduce the volume.
- Move the microphone away from the speakers or change the direction of the microphone.

The color irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

Continued

The sound from the component connected to the VIDEO/SAT IN L/R jacks is distorted.

- If "VIDEO" appears in the display when you touch VIDEO/SAT 6 on the unit, switch the display to "SAT" (see "Listening to a connected VCR or satellite tuner" (page 106)).

"THEATRE SYNC" function does not work.

- If distance between the TV and this unit is too far, this function may not work. Install the unit near the TV.

Speakers

Sound comes from one channel or unbalanced left and right volume.

- Place the speakers as symmetrically as possible.
- Check that the speakers are connected securely and correctly.
- The source being played back is monaural.

Sound lacks bass (DHC-AZ55D only).

- Check that the speaker's + and — terminals are connected correctly.

The sound comes from the center speaker only (DHC-AZ55D only).

- Depending on the disc, the sound may come from the center speaker only.

There is no sound from the subwoofer.

- Make sure that "SUBWOOFER" setting is set to "YES."
- Set the subwoofer level to the appropriate level.
- No sound is produced from the subwoofer when you play back a DVD VIDEO that does not have subwoofer output recorded.
- Check that the subwoofer is connected securely and correctly.

There is no sound from the center/surround speaker (DHC-AZ55D only).

- Set the center/surround speaker level to the appropriate level.
- The software being played back has limited sound effects. Check the volume with the test tone (page 69).
- Check that the center/surround speakers are connected securely and correctly.
- Make sure that "SURROUND" is set to "SIDE" or "BEHIND."
- Make sure that "CENTER" is set to "YES."

Disc Player

The disc does not eject and "LOCKED" appears in the display.

- Consult your nearest Sony dealer or local authorized Sony service facility.

The disc does not eject.

- You cannot eject the disc during CD Synchro Recording. Press ■ 7 to cancel the CD Synchro Recording, then press ⏏ 4 on the unit to eject the disc.
- Consult your nearest Sony dealer.

Playback does not start.

- Check whether a disc is loaded.
- Wipe the disc clean (page 122).
- Reload the disc.
- Load the disc that this system can play back (page 7).
- Load the disc in the disc slot with the label side facing right.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press ▷ (or touch ◀◀▶▶ on the unit) 7 to start playback.
- The region code on the DVD VIDEO does not match the system.
- Cancel the Custom Parental Control function (page 59).

The sound skips.

- Wipe the disc clean (page 122).
- Reinsert the disc.
- Move the unit to a place without vibration (e.g., on top of a stable stand).
- Move the speakers away from the unit, or place them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Playback does not start from the first track.

- Shuffle Play mode, Program Play mode or Repeat Play mode is selected.
- Resume Play has been selected. Press ■ 7 twice. Then, press ▷ (or touch ◀◀▶▶ on the unit) 7 to start playback (page 39).
- The title of DVD VIDEO or PBC menu automatically appears on the TV screen.

Playback starts automatically.

- The DVD VIDEO features an auto playback function.

Playback stops automatically.

- Some discs may contain an auto pause signal. While playing such a disc, the playback stops at auto pause signal.

You cannot perform some functions such as Stop, Lock Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.

- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

Continued

The DATA CD/DVD (MP3 audio track/JPEG image file/DivX video file) cannot be played back.

- The DATA CD is not recorded in a format that conforms to ISO 9660 Level 1, Level 2, or Joliet (expansion format).
- The DATA DVD is not recorded in a format that conforms to UDF (Universal Disk Format).
- The MP3 audio track does not have the extension ".MP3".
- The data is not stored in the desired format.
- The MP3 audio tracks in format other than MPEG 1 Audio Layer 3 cannot be played back.
- The system can playback to a depth of 8 folders only.
- For MP3/JPEG files, check the "MODE (MP3, JPEG)" setting (page 53).
- The disc contains more than 200 albums.
- The album contains more than 600 tracks/files.
- For MP3/JPEG files, the album contains more than 300 tracks/files when the "MODE (MP3, JPEG)" is set to "AUTO."
- The JPEG image file does not have the extension ".JPG" or ".JPEG".
- The JPEG image file is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG mode which is mainly used on the Internet website.
- JPEG image files with a high width to length ratio cannot be played back.
- For MP3/JPEG files, the DATA CD/DVD contains a DivX video file.
- The DivX video file does not have the extension ".AVI" or ".DIVX".
- DivX video files with a high width to length ratio cannot be played back.

The MP3 audio tracks take longer time to play back than others.

- After the system reads all the tracks on the disc, playback may take more time than usual if:
  - the number of albums or tracks on the disc is very large.
  - the album and track organization structure is very complex.

"Data error" appears on the TV screen when playing a DATA CD.

- The MP3 audio track/JPEG image file you want to play is broken.
- The data is not MPEG1 Audio Layer 3 data.
- The JPEG image file format does not conform to DCF.
- The JPEG image file has the extension ".JPG" or ".JPEG", but is not in JPEG format.

The disc title, CD-TEXT and DVD-TEXT characters do not appear properly.

- Use a disc that conforms to the ISO 9660 Level 1, Level 2, or Joliet (expansion).
- The character code that can be displayed by this system are numbers and alphabet only. Other characters appear as "*".
- ID3 tag information cannot be displayed on this system.

The surround effect is difficult to hear when you are playing a Dolby Digital or MPEG audio sound track.

- Make sure the sound field is set properly (page 88).
- Check the speaker connection (page 21).
- Depending on the DVD VIDEO, the output signal may not be the entire 5.1 channel. It may be monaural or stereo, even if the sound track is recorded in Dolby Digital or MPEG audio format.

The sound loses stereo effect when you play back a DVD VIDEO, VIDEO CD, AUDIO CD, MP3 audio track or DivX video file.

- Unplug the microphone or press KARAOKE MODE 35 repeatedly until "🎤" disappears from the display.
- Make sure the system is connected properly.

USB device

"Over Current" appears.

- A problem has been detected with the level of electrical current from the ⇜ (USB) port 11. Turn off the system and remove the USB device from the ⇜ (USB) port 11. Make sure there is no problem with the USB device. If this display pattern persists, contact your nearest Sony dealer.

Are you using a supported USB device?

- If you connect an unsupported USB device, the following problems may occur. See "Playable USB devices" (page 135) for the supported device types.
  - —The USB device is not recognized.
  - —File or folder names are not displayed on this system.
  - —Playback is not possible.
  - —The sound skips.
  - —There is noise.
  - —A distorted sound is output.

Continued

There is no sound.

- The USB device is not inserted correctly. Turn off the system, then reinsert the USB device and check if "USB MEMORY" is displayed.

The sound is distorted.

- The bit rate used when encoding the MP3 files was low. Send MP3 files encoded with higher bit rates to the USB device.

There is noise or the sound skips.

- Turn off the system, then reinsert the USB device.
- The music data itself contains noise. Noise may have been introduced when creating music data due to the conditions of the computer. Create the music data again.
- Copy the files to your computer, format the USB device in FAT12, FAT16, or FAT32 format, and copy the files to the USB device again.*

The USB device cannot be inserted into the ⇧ (USB) port 11.

- The USB device is being inserted backwards. Insert the USB device in the correct orientation.

The USB device which has been used on another device does not work.

- It may be recorded in an unsupported format. If so, first take the precaution of backing up important files on the USB device by copying them to your computer hard disk. Next, format the USB device with a FAT12, FAT16, or FAT32 file system and transfer the backed-up audio files onto the USB device again.*

"Reading" is displayed for a long time.

- It may take a while to finish reading the USB device if there are many albums or tracks on it. Thus, we recommend following these guidelines.
  - —Total albums on USB device: 100 or less
  - —Total tracks per album: 100 or less

Erroneous display

- Send the music data to the USB device again, as the data stored in the USB device may have been corrupted.
- The character codes that can be displayed by this system are numbers and alphabet only. Other characters appear as "*".

"Data error" appears on the TV screen when playing an USB device.

- The MP3 audio track/JPEG image file you want to play is broken.
- The data is not MPEG1 Audio Layer 3 data.
- The JPEG image file format does not conform to DCF.
- The JPEG image file has the extension ".JPG" or ".JPEG", but is not in JPEG format.

Play does not start.

- Turn off the system, then reinsert the USB device.
- Insert the USB device that this system can play (page 135).
- Press ▷ (or touch ◀▶ on the unit) 7 to start play.

Play does not start from the first track.

- Cancel Shuffle Play (page 84), Repeat Play (page 85).

The USB device (MP3 audio track/ JPEG image file) cannot be played back.

- USB device formatted with file systems other than FAT12, FAT16, or FAT32 are unsupported.*
- Files that are encrypted or protected by passwords, etc. cannot be played back.
- The MP3 audio track does not have the extension ".MP3".
- The data is not stored in the desired format.
- The MP3 audio tracks in format other than MPEG 1 Audio Layer 3 cannot be played back.
- The system can playback to a depth of 8 folders only.
- For MP3/JPEG files, check the "MODE (MP3, JPEG)" setting (page 82).
- The USB device contains more than 200 albums.
- The album contains more than 600 tracks/files.
- For MP3/JPEG files, the album contains more than 300 tracks/files when the "MODE (MP3, JPEG)" is set to "AUTO."
- The JPEG image file does not have the extension ".JPG" or ".JPEG".
- The JPEG image file is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG mode which is mainly used on the Internet website.
- JPEG image files with a high width to length ratio cannot be played back.

Continued ⇨

MP3 audio tracks or JPEG image files take longer to play back than others.

- After the system reads all tracks or files on the USB device, playback may take more time than usual if:
  - the number of albums, tracks or files is very large.
  - the album, track or file organization structure is very complex.
  - the memory capacity is very large.
  - the file size is extremely large.
  - the physical structure within the memory is fragmented.

* This system supports FAT12, FAT16 and FAT32, but some USB device may not support all of these FAT. For details, see the operation manual of each USB device or contact the manufacturer.

Picture

There is no picture.

- Press FUNCTION +/– 19 repeatedly (or touch DVD 6 or USB 6 on the unit) to select "DVD" or "USB."
- Check that the system is connected securely.
- The video cord is damaged. Replace it with a new one.
- Make sure you connect the unit to the video input jack of your TV (page 23).
- Make sure you turn on the TV and operate the TV correctly.
- Make sure you select the video input on the TV so that you can view the pictures from the system.
- Make sure you set the color system correctly, according to your TV's color system (Except for European and Russian models).
- Make sure you connect the unit and your TV using only the supplied video cord.
- Press PROGRESSIVE 17 on the unit repeatedly to select "INTERLACE" if you connect your TV to the unit's COMPONENT VIDEO OUT jacks and your TV cannot accept progressive signal.
- You have set to progressive format but your TV cannot accept the signal in progressive format. In this case, set to interlace format (the default setting) (page 25).
- Even if your TV is compatible with progressive format (525p/625p) signals, the image may be affected when you set to progressive format. In this case, set to interlace format (the default setting) (page 25).

Picture noise appears.

- Wipe the disc clean (page 122).
- If video signal from your system has to go through your VCR to your TV, the copy-protection applied to some DVD VIDEO programs could affect the picture quality. If you still experience problems after checking your connections, connect your system directly to your TV's S Video input (page 24).

- Keep the speaker cords away from the antennas.
- When you play back a VIDEO CD recorded in a different color system from the one you set to the system, the picture image may be distorted.
- When you connect your TV to the COMPONENT VIDEO OUT jacks and play back video-based software in progressive signal format, some sections of the image may appear unnatural due to the conversion process.
- Set the color system to match your TV (Except for European and Russian models) (page 65).

The aspect ratio of the TV screen cannot be changed even though you can set "TV TYPE" under "SCREEN SETUP" in the Setup Menu when you play back a wide picture.

- The aspect ratio is fixed on your DVD VIDEO.
- If you connect the unit with the S Video cord, connect directly to the TV. Otherwise, you may not change the aspect ratio.
- Depending on the TV, you may not change the aspect ratio.

Messages do not appear on the TV screen in the language you want.

- Select the language you want for the on-screen display in "OSD" under "LANGUAGE SETUP" in the Setup Menu (page 64).

The language for the sound track cannot be changed.

- Multilingual tracks are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the language for the sound track.

The subtitles language cannot be changed.

- Multilingual subtitles are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the subtitles.

The subtitles cannot be turned off.

- The DVD VIDEO prohibits turning off subtitles.

The angles cannot be changed.

- Multi-angles are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the angles.

Continued

Tuner

The radio presetting is canceled.

- The power cord is disconnected or a power failure occurred for longer than a day. Redo "Listening to a preset radio station" (page 70).

There is severe hum or noise. ("TUNED" or "STEREO" flashes in the display)

- Set the proper band and frequency (page 70).
- Connect the antenna properly (page 21).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend that you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords and the power cord as possible, to avoid picking up noise.
- Try turning off the surrounding electrical equipment.

A stereo FM program cannot be received in stereo.

- Press REPEAT/FM MODE 21 repeatedly until "MONO" disappears from the display.

Tape deck

The tape does not record or playback, or there is a decrease in sound level.

- The tape heads are dirty (see "Cleaning the tape heads" (page 124)).
- The record/playback heads are magnetized (see "Demagnetizing the tape heads" (page 124)).

The tape does not erase completely.

- The record/playback heads are magnetized (see "Demagnetizing the tape heads" (page 124)).

There is excessive wow or flutter, or the sound drops out.

- The capstans or pinch rollers are dirty (see "Cleaning the tape heads" (page 124)).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized (see "Demagnetizing the tape heads" (page 124)).

The tape does not record.

- No tape is loaded. Load a tape.
- The tab has been removed from the tape. Cover the broken tab with adhesive tape (page 124).
- The tape has reeled to the end.

Optional components

There is no sound.

- Refer to General item "There is no sound." (page 109) and check the condition of the system.
- Connect the component properly (page 103) while checking:
  - if the cords are connected properly.
  - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions supplied with the connected component and start playing.

If the system still does not operate properly after performing the above measures or other troubles not described above occur, reset the system as follows:

Use buttons on the unit to reset the system to its factory default settings.

1 Unplug the power cord.

2 Plug the power cord back in.

3 Press I/⏻ 1 to turn on the system.

4 While holding down DISPLAY 18, touch ■ 7 and press I/⏻ 1 at the same time.
"COLD RESET" appears in the display. The system is reset to the factory settings except for DVD settings. You should set the settings you made, such as the preset stations, clock and timer.

To return the DVD setup to the default settings*, perform reset as follows:

1 Press DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 31 repeatedly to select (SETUP), then press ENTER 31.

3 Press ↑ or ↓ 31 repeatedly to select "RESET," then press ENTER 31.

4 Press ↑ or ↓ 31 repeatedly to select "YES," then press ENTER 31.
It takes a few seconds to complete. Do not press I/⏻ 1 when resetting the system.

* Except for Parental Control settings

Continued

Self-diagnosis Function

(When letters/numbers appear in the display)
When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g. C 13 50) with a combination of a letter and 4 digits appears on the TV screen or the front panel display. In this case, check the following table.

First 3 characters of the service number	Cause and corrective action
C 13	This disc is dirty. • Clean the disc with a soft cloth (page 122).
C 31	The disc is not inserted correctly. • Restart the system, then re-insert the disc correctly.
E XX (XX is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. • Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When displaying the version number on the TV screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the TV screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.

Messages

One of the following messages may appear or flash in the front panel display during operation.

Cannot Play

- A disc that cannot be played back was inserted.
- A DVD VIDEO with unsupported region code was inserted.

Data Error

- The MP3 audio track, JPEG image file and DivX video file you want to play back is damaged.
- The MP3 audio track does not conform to MPEG 1 Audio Layer 3 format.
- The JPEG image file does not conform to DCF format.
- The MP3 audio track has the extension ".MP3" but it is not in MP3 format.
- The JPEG image file has the extension ".JPG" or ".JPEG" but it is not in JPEG format.
- The DivX video file does not conform to a DivX Certified profiles.
- The DivX video file has the extension ".AVI" or ".DIVX" but it is not in DivX format.

Device Error
The USB device could not be recognized.

Hub No Support
The USB device is connected to this system through a hub.

Invalid
You have pressed an invalid button.

JPEG
The playback mode is "IMAGE (JPEG)" and a JPEG image file is being played back.

No Audio
The inserted USB device does not contain MP3 audio tracks.

No Device
No USB device is connected or the connected USB device has been stopped.

No Disc
There is no disc in the disc slot 5.

No Support
An unsupported USB device is connected.

No Tab
You cannot record the tape because the tab has been removed from the tape.

No Tape
There is no tape in the tape deck.

Not in Use
You have pressed a button whose operation is not allowed or invalid at that time.

OFF TIME NG!
The on time and off time of Play Timer or Rec Timer is the same.

Over Current
An over current was detected.

Continued

PASSWORD
Custom Parental Control or Parental Control is set.

Please Wait
- The system is doing initialization process.
- The system is readying for usage of an USB device.

Push STOP!
You have pressed the buttons whose operation is only possible when playback is stopped.

Reading
- The system is reading information of the disc. Some buttons are not available.
- The system is recognizing the USB device.

Precautions

Notes on discs
- Before playing, wipe the disc with a cleaning cloth from the center out to the edge.
- Do not clean discs with solvents, such as benzine, thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

On cleaning discs, disc/lens cleaner
Do not use a commercially available cleaning disc or disc/lens cleaner (wet or spray type). These may cause apparatus to malfunction.

On operating voltage
Before operating the system, check that the operating voltage of the unit is identical with the voltage of your local power supply.

On safety
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Completely disconnect the power cord (mains lead) from the wall socket (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.

- Should any solid object or liquid get into the system, unplug the system, and have it checked by qualified personnel before operating it again.
- AC power cord must be changed only at a qualified service shop.

On placement

- Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
- If the system is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense on the lens inside the DVD player, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for about an hour until the moisture evaporates.

On heat buildup

- Heat buildup on the unit during operation is normal and is not cause for alarm.
- Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
- Do not obstruct the ventilation holes.

In case color irregularity is observed on a nearby TV screen

With the magnetically shielded type of speakers, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. If there is no improvement, move the speakers far away from the TV.

IMPORTANT NOTICE

Caution: If you leave a still video image or on-screen display image displayed on your TV for an extended period of time via this system, you risk permanent damage to your TV screen. Projection TVs are especially susceptible to this.

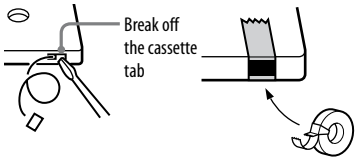
Cleaning the cabinet

Clean this system with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as thinner, benzine, or alcohol.

Continued

To prevent a tape from being accidentally recorded over

Break off the cassette's overwrite protection tab from side A or B as illustrated.



To later reuse the tape for recording, cover the broken tab with adhesive tape.

About a tape longer than 90 minutes

The use of the tape with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Cleaning the tape heads

Use dry- or wet-type cleaning cassette (available separately) after every 10 hours of use, before you start an important recording, or after playing an old tape. Failure to clean the tape heads can cause degraded sound quality or an inability of the unit to record or play tapes. For details, refer to the instructions of the cleaning cassette.

Demagnetizing the tape heads

Use a demagnetizing cassette (available separately) after every 20 to 30 hours of use. Failure to demagnetize the tape heads can cause an increase in noise, a loss of high frequency sound, and an inability to completely erase tapes. For details, refer to the instructions of the demagnetizing cassette.

Specifications

Main unit

Amplifier section

DHC-AZ55D

The following measured at AC 120, 127, 220, 240 V, 50/60 Hz

Power output (rated):
80 W + 80 W (4 Ω at 1 kHz, 1% THD)

RMS output power (reference)
Front speaker:
100 W + 100 W (per channel at 4 Ω, 1 kHz, 10% THD)
Center speaker:
50 W (8 Ω at 1 kHz, 10% THD)
Surround speaker:
50 W + 50 W (per channel at 8 Ω, 1 kHz, 10% THD)

DHC-AZ33D

The following measured at AC 120, 127, 220, 240 V, 50/60 Hz

Power output (rated):
80 W + 80 W (4 Ω at 1 kHz, 1% THD)

RMS output power (reference):
100 W+ 100 W (per channel at 4 Ω, 1 kHz, 10% THD)

Inputs

VIDEO/SAT IN (audio) (phono jacks):
voltage 250/450 mV, impedance 47 kilohms

MIC 1/MIC 2 (phone jacks):
sensitivity 1 mV, impedance 10 kilohms

Outputs

VIDEO/SAT OUT (audio) (phono jacks):
voltage 250 mV, impedance 1 kilohm
VIDEO OUT (phono jack):
max. output level 1 Vp-p, unbalanced, Sync negative, load impedance 75 ohms
S VIDEO OUT (4-pin/mini-DIN jack):
Y: 1 Vp-p, unbalanced, Sync negative, C: 0.286 Vp-p, load impedance 75 ohms
COMPONENT VIDEO OUT:
Y: 1 Vp-p, 75 ohms
PB/CB: 0.7 Vp-p, 75 ohms
PR/CR: 0.7 Vp-p, 75 ohms
DVD/USB DIGITAL OUT (DHC-AZ33D only) (Square optical connector jack, rear panel):
Wavelength 660 nm
PHONES (stereo mini jack):
accepts headphones of 8 ohms or more
FRONT SPEAKER:
Use only the supplied speaker SS-AZ55D.
SURROUND SPEAKER (DHC-AZ55D only):
Use only the supplied speaker SS-RSX77D.
CENTER SPEAKER (DHC-AZ55D only):
Use only the supplied speaker SS-CT77D.

USB section

Supported audio file format
MP3 (MPEG 1 Audio Layer-3) Bit rate: 32 – 320 kbps*, VBR
Sampling frequencies:
32/44.1/48 kHz
(USB) port:
Maximum current: 500 mA
Video color system format
European and Russian models: PAL
Other models: NTSC and PAL

* 128 kbps or higher bit rate is recommended.

Disc player section

System:
Compact disc and digital audio and video system
Laser:
Semiconductor laser (DVD: λ=650 nm, CD: λ=790 nm)
Emission duration: continuous
Frequency response
DVD (PCM 48 kHz): 2 Hz — 22 kHz (±1dB)
CD: 2 Hz — 20 kHz (±0.5 dB)
Video color system format
European and Russian models: PAL
Other models: NTSC and PAL

Tape deck section

Recording system:
4-track 2-channel, stereo

Tuner section

FM stereo, FM/AM superheterodyne tuner
FM tuner section
Tuning range:
87.5 — 108.0 MHz (50 kHz step)
Antenna:
FM lead antenna
Antenna terminals:
75 Ω unbalanced
Intermediate frequency:
10.7 MHz

Continued

AM tuner section
Tuning range:
European, Russian and Saudi Arabian models:
531 — 1,602 kHz (with the interval set at 9 kHz)
Australian model:
531 — 1,710 kHz (with the interval set at 9 kHz)
530 — 1,710 kHz (with the interval set at 10 kHz)
Other models:
531 — 1,602 kHz (with the interval set at 9 kHz)
530 — 1,610 kHz (with the interval set at 10 kHz)
Antenna:
AM loop antenna
Antenna terminals:
External antenna terminal
Intermediate frequency:
450 kHz

Speaker

Front speaker SS-AZ55D

Speaker system:
2-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units
Woofer: 13 cm, cone type
Tweeter: 5 cm, cone type
Rated impedance: 4 Ω
Dimensions (w/h/d):
Approx. 190 × 381 × 242 mm
Mass:
Approx. 4.7 kg net per speaker

Surround speaker SS-RSX77D for DHC-AZ55D

Speaker system:
1-way, 1-unit, bass-reflex type
Speaker units
Full-range: 8 cm, cone type
Rated impedance: 8 Ω
Dimensions (w/h/d):
Approx. 174 × 96 × 112 mm
Mass:
Approx. 0.7 kg net per speaker

Center speaker SS-CT77D for DHC-AZ55D

Speaker system:
1-way, 1-unit, bass-reflex type, magnetically shielded type
Speaker units
Full-range: 8 cm, cone type
Rated impedance: 8 Ω
Dimensions (w/h/d):
Approx. 174 × 96 × 112 mm
Mass:
Approx. 0.9 kg

General

Power requirements
European model:
AC 230 V, 50/60 Hz
Australian model:
AC 230 – 240 V, 50/60 Hz
Russian and Indian models:
AC 220 – 240 V, 50/60 Hz
Thai model:
AC 220 V, 50/60 Hz
Korean model:
AC 220 V, 60 Hz
Saudi Arabian model:
AC 120 — 127, 220 — 240 V, 50/60 Hz, adjustable with voltage selector
Other models:
AC 120, 220 — 240 V, 50/60 Hz, adjustable with voltage selector

Power consumption
DHC-AZ55D: 110 W
DHC-AZ33D: 65 W (European model: 0.4 W in Power Saving Mode)
Dimensions (w/h/d) (excl. speakers)
DHC-AZ55D:
Approx. 190 × 380 × 325 mm
DHC-AZ33D:
Approx. 190 × 380 × 325 mm
Mass (excl. speakers)
DHC-AZ55D: Approx. 6.6 kg
DHC-AZ33D: Approx. 6.0 kg
Supplied accessories:
Remote Commander (1)
AM loop antenna (1)
FM lead antenna (1)
Video cord (1)
Speaker pads (DHC-AZ55D (20), DHC-AZ33D (8))
Speaker cords (3) (DHC-AZ55D only)
R6 (Size AA) batteries (2)

Design and specifications are subject to change without notice.

- Standby power consumption: 0.4 W
- Halogenated flame retardants are not used in the printed wiring boards.
- Halogenated flame retardants are not used in cabinets.

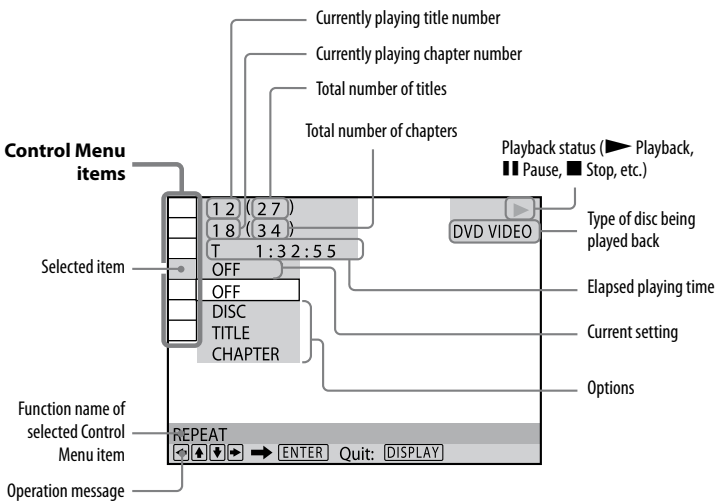
Guide to the Control Menu display

Use the Control Menu to select a function and to view related information. Press DISPLAY 26 repeatedly to turn on, turn off or change the Control Menu display as follows:

Control Menu display 1 → Control Menu display 2 (appears for certain discs only) → Control Menu display off → Control Menu display 1 → …

Control Menu display

The Control Menu display 1 and 2 will show different items depending on the disc type.
Example: Control Menu display 1 when playing a DVD VIDEO



List of Control Menu items

Item	Item Name, Relevant Disc Type, Function
	[TITLE] (page 46)/[SCENE]/[TRACK] (page 46) Selects the title, scene, or track to be played back. DVD-V DVD-VR VIDEO CD
	[CHAPTER] (page 46)/[INDEX] Selects the chapter or index to be played back. DVD-V DVD-VR VIDEO CD
	[TRACK][1] (page 46) Selects the track to be played back. CD DATA CD DATA DVD
	[ORIGINAL/PLAY LIST] (page 46) Selects the playback sequence either to the originally recorded sequence or to the playlist created on the disc. DVD-VR
	[TIME/TEXT][1] (page 48) Checks the elapsed playing time and the remaining time. Inputs the time code for picture and music searching. Displays the text information on the DVD TEXT discs and MP3 audio tracks. DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD
	[PROGRAM] (page 41) Plays back the tracks in the order you want. VIDEO CD CD

Continued

Item	Item Name, Relevant Disc Type, Function
	[SHUFFLE][1] (page 43, 84) Plays back the tracks in random order. VIDEO CD CD DATA CD DATA DVD
	[REPEAT][1] (page 44, 85) Plays back the entire disc (all titles/all tracks/all albums) repeatedly or one title/chapter/track/album/file repeatedly. DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD
	[A/V SYNC] (page 57) Sets the delay time between the sound and display. DVD-V DVD-VR VIDEO CD DATA CD DATA DVD
	[PARENTAL CONTROL] (page 58) Sets to prohibit playback on this system. DVD-V VIDEO CD CD
	[SETUP][1] (page 32, 63, 119) **QUICK** Use “QUICK” Setup to choose the language of the on-screen display and the aspect ratio of the TV. **CUSTOM** In addition to the “QUICK” setup setting, you can adjust other settings. **RESET** Returns the settings in “SETUP” to the default setting. DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD

Item	Item Name, Relevant Disc Type, Function
	[ALBUM][1] (page 46) Selects the album to be played back. DATA CD DATA DVD
	[FILE][1] (page 46) Selects the JPEG image file or DivX video file to be played back. DATA CD DATA DVD
	[DATE][1] Displays the date when the picture was taken by a digital camera. DATA CD DATA DVD
	[INTERVAL][1] (page 54, 83) Specifies the duration for which the slides are displayed on the TV screen. DATA CD DATA DVD
	[EFFECT][1] (page 55, 84) Selects the transition effects to be used for changing slides during a slide show. DATA CD DATA DVD
 	[MODE (MP3, JPEG)][1] (page 53, 82) Selects the data type: MP3 audio track (AUDIO (MP3)), JPEG image file (IMAGE (JPEG)) or both (AUTO) to be played back when playing a DATA CD/DVD or an USB device. DATA CD DATA DVD

Continued

Item	Item Name, Relevant Disc Type, Function
	[KEY CONTROL][1)][2)] (page 94) Changes the key to suit your vocal range. DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD
	[SCORE MODE][1)][2)] (page 95) Selects the level for scoring mode. DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD
	[KARAOKE PON][1)][2)] (page 94) Enjoys karaoke with a stereo-recorded disc by reducing the sound of the vocals. DVD-V DVD-VR VIDEO CD CD DATA CD DATA DVD
	[VOCAL SELECT][2)] (page 94) Selects the guide vocal recorded on the "Dolby Digital Karaoke" Format disc (DVD VIDEO only). Selects the vocal type recorded on the disc (VIDEO CD, AUDIO CD only). Turns off the vocal (VIDEO CD, AUDIO CD only). DVD-V VIDEO CD CD
	[GUIDE MELODY][2)] (page 95) Turns on or off the guide melody for "Dolby Digital Karaoke" Format disc. DVD-V

[1)] These functions are the same when using a USB device. However, some menu items may not be available.

[2)] This function is only available during karaoke mode.

Language code list

The language spellings conform to the ISO 639:1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malay	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Telugu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
1144	English	1301	Korean	1495	Sanskrit	1632	Xhosa
1145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba
1149	Spanish	1307	Kurdish	1501	Sangho	1684	Chinese
1150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu
1151	Basque	1313	Latin	1503	Singhalese	1703	Not specified
1157	Persian	1326	Lingala	1505	Slovak		
1165	Finnish	1327	Laothian	1506	Slovenian		
1166	Fiji	1332	Lithuanian	1507	Samoan		
1171	Faroese	1334	Latvian; Lettish	1508	Shona		
1174	French	1345	Malagasy	1509	Somali		
1181	Frisian	1347	Maori	1511	Albanian		
1183	Irish	1349	Macedonian	1512	Serbian		

Continued

Parental Control area code list

Code	Area	Code	Area	Code	Area	Code	Area
2044	Argentina	2165	Finland	2362	Mexico	2149	Spain
2047	Australia	2174	France	2376	Netherlands	2499	Sweden
2046	Austria	2109	Germany	2390	New Zealand	2086	Switzerland
2057	Belgium	2248	India	2379	Norway	2528	Thailand
2070	Brazil	2238	Indonesia	2427	Pakistan	2184	United Kingdom
2079	Canada	2254	Italy	2424	Philippines		
2090	Chile	2276	Japan	2436	Portugal		
2092	China	2304	Korea	2489	Russia		
2115	Denmark	2363	Malaysia	2501	Singapore		

Playable USB devices

You can use the following Sony USB devices on this system.

Verified Sony digital music player (as of April 2007)

Product name	Model name
Walkman®	NWD-B103 / B105 / B103F / B105F

Verified Sony IC Recorder (as of April 2007)

Product name	Model name
IC Recorder	ICD-U50 / U60 / U70

Verified Sony USB storage media (as of April 2007)

Product name	Model name
MICROVAULT	USM 256J / 512J / 1GJ / 2GJ / 4GJ
	USM 512JX / 1GJX / 2GJX / 4GJX
	USM 256H / 512H / 1GH / 2GH / 4GH

Notes

- Do not use USB devices other than these USB devices. Operation of models not listed here is not guaranteed.
- Operation may not always be ensured even when using these USB devices.
- Some of these USB devices may not be available for purchase in certain areas.

Glossary

Album
Section of a music or picture piece on a DATA CD, DATA DVD or USB device containing MP3 audio tracks, JPEG image files, DivX video files.

Auto Pause
An automatical pause according to the signal encoded on the disc while playing a VIDEO CD. If the CD/DVD player does not resume play for a long time, press ▷ (or touch ◄► on the unit) 7 to resume play manually.

Chapter
Subdivision of a title on a DVD VIDEO. A title is composed of several chapters.

Digital Cinema Sound (DCS)
This is the generic name of the surround sound produced by digital signal processing technology developed by Sony. Unlike previous surround sound fields mainly directed at the reproduction of music, Digital Cinema Sound is designed specifically for the enjoyment of movies.

DivX®
Digital video technology created by DivX, Inc. Videos encoded with DivX technology are among the highest quality with a relatively small file size.

Dolby Digital
This sound format for movie theaters is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range and a subwoofer channel for deep bass is independently provided. This format is also called "5.1" because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Pro Logic II

This technology converts 2 channel stereo recorded audio into 5.1 channels for playback. There is a Movie mode for movies and Music mode for stereo sources such as music. Old movies encoded in traditional stereo format can be enhanced with 5.1 channel surround sound.

Movie mode

The Movie mode is for use with stereo television shows and all the programs encoded in Dolby Surround. The result is enhanced sound field directionality that approaches the quality of discrete 5.1-channel sound.

Music mode

The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space.

Dolby Surround Pro Logic

As one method of Dolby Surround decoding, Dolby Surround Pro Logic produces four channels from two-channel sound. Compared with the former Dolby Surround system, Dolby Surround Pro Logic reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantages of Dolby Surround Pro Logic, you should have one pair of surround speakers and a center speaker. The surround speakers output monaural sound.

DTS

Digital audio compression technology developed by DTS, Inc. This technology conforms to 5.1-channel surround. The surround channel is stereo and there is discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

DVD VIDEO

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as an AUDIO CD. The data capacity of a single-layer and single-sided DVD VIDEO, at 4.7 GB (Giga Byte), is 7 times that of an AUDIO CD. Furthermore, the data capacity of a dual-layer and single-sided DVD VIDEO is 8.5 GB, a single-layer and double-sided DVD VIDEO 9.4 GB, and a dual-layer and double-sided DVD VIDEO 17 GB. The picture data uses the MPEG 2 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD VIDEO also uses variable rate coding technology that changes the data to be allocated according to the status of the picture. The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD VIDEO.

Continued

DVD-RW

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

File

A JPEG image file or DivX video file recorded on a DATA CD, DATA DVD or USB device. ("File" is an exclusive definition for this system.) A single file consists of a single image.

Film based software, Video based software

DVD VIDEOs can be classified as Film based or Video based software. Film based DVD VIDEOs contain the same images (24 frames per second) that are shown at movie theaters. Video based DVD VIDEOs, such as television dramas or sitcoms, displays images at 30 frames (or 60 fields) per second.

Interlace format (Interlaced scanning)

The Interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice-alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

Menu Playback

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

Multi-angle function

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVD VIDEOs.

Multilingual function

Several languages for the sound or subtitles in a picture are recorded on some DVD VIDEOs.

Multi Session

This is a recording method that enables adding of data using the Track-At-Once method. Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session disc is a disc having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

Parental Control

A function of the DVD VIDEO to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Version 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Progressive format (sequential scanning)

In contrast to the Interlace format, the progressive format can reproduce 50 — 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system, 625 lines for PAL system). The overall picture quality increases and still images, text and horizontal lines appear sharper. This format is compatible with the 525 or 625 progressive format.

Region Code

This system is used to protect copyrights. A region code is allocated on each DVD system or DVD VIDEO according to the sales region. Each region code is shown on the unit as well as on the disc packaging. The system can play back the discs that match its region code. The system can also play back discs with the " " mark. Even when the region code is not shown on the DVD VIDEO, the region limit may still be activated.

Scene

On a VIDEO CD with PBC functions, the menu screens, moving pictures and still pictures are divided into sections called "scenes."

Title

The longest section of a picture or a music piece on a DVD VIDEO; a movie, etc., for a picture piece on video software, or the entire album in audio software.

Track

Section of a picture or a music piece on a VIDEO CD, CD, or MP3. An album is composed of several tracks (MP3 only).

Continued

VIDEO CD

A compact disc that contains moving pictures.
The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.
VIDEO CDs also contain compact audio data.
Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional AUDIO CDs.
There are 2 versions of VIDEO CDs.

- Version 1.1: You can play back only moving pictures and sounds.
- Version 2.0: You can play back high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

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